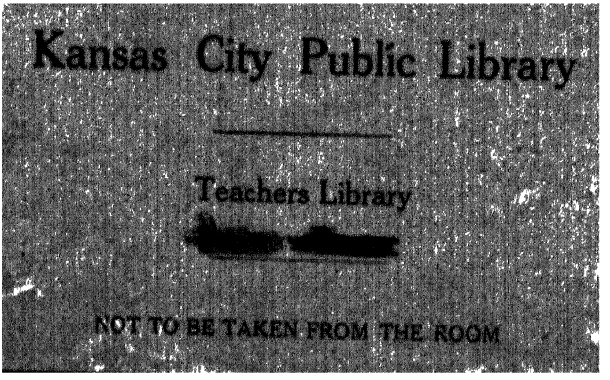
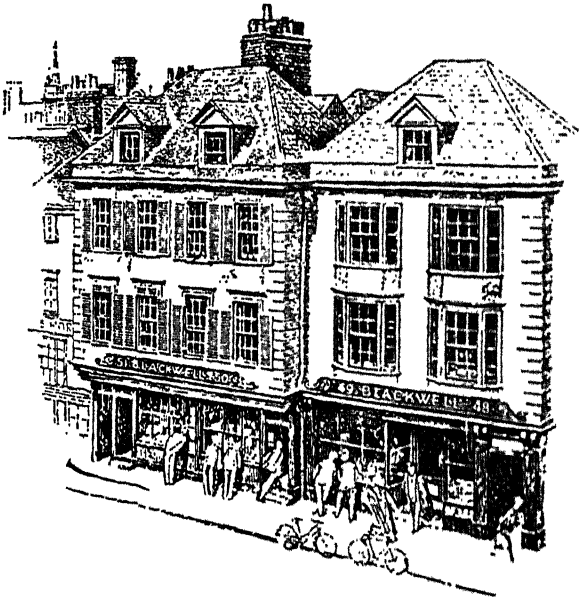

Kansas City Public Library
Teachers Library
NOT TO BE TAKEN FROM THE ROOM



From THOMAS DERRICK'S *drawing*
of the Old Building and the New Building
of

BLACKWELL'S

University Booksellers

BROAD STREET, OXFORD

who offer

a

Complete

Book Service

LONDON
OPPOSITE THE BRITISH MUSEUM
THACKERAY HOTEL
.1
JM
)TEL
d of comfort
these hotels
ay. Hot and
tric Heating
AKFAST
T
n
NDON"
NDON"

378 Y39 1939
Kansas City
Public Library
THE SCHOOL DISTRICT OF KANSAS CITY, MISSOURI
This Volume is for
REFERENCE USE ONLY
3-36—6m P

Imperial College of Science and Technology

South Kensington, London, S.W.7

THE ROYAL COLLEGE OF SCIENCE
THE ROYAL SCHOOL OF MINES
THE CITY AND GUILDS COLLEGE

DEPARTMENTS.

Aeronautics (including Aero dynamics).

Biology (including Botany, Plant Physiology, Plant Pathology, Biochemistry, Bacteriology, Zoology, Entomology).

Chemical Technology (including Fuel and Refractory Materials, Electro-Chemistry).

Chemistry (including Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Agricultural Chemistry, Chemistry of Food and Drugs).

Engineering, Mechanical and Motive Power.

Engineering, Civil and Surveying (including Highway Engineering).

Engineering, Electrical.

Engineering, Chemical.

Geology (including Mining Geology, Oil Technology).

Mathematics and Mechanics.

Metallurgy.

Mining (including Mining Surveying).

Physics (including Astrophysics, Technical Optics, Instrument Design, Meteorology, Applied Geophysics).

The Pre-Graduate Courses extend over three or four years and lead up to an Associateship of one of the Colleges, and a B.Sc. Degree of the University of London.

The Post-graduate Courses and Research lead up to the higher Diploma (D.I.C.) and to the Higher Degrees of the University of London.

The purposes of the Imperial College are to give the highest specialised instruction, and to provide the fullest equipment for the most advanced training and research in science, especially in its application to industry.

Prospectus (free) from the Registrar, Imperial College of Science and Technology, Prince Consort Road, London, S.W.7.

EDUCATIONAL BOOKS

for Senior and Post-Graduate Students

BOOKS IN EVERY DEPARTMENT OF

SCIENCE, THEORETICAL & APPLIED

Special attention to the careful execution of orders from Colleges and Institutions abroad. Books carefully packed and forwarded by return mails.



CORNER OF GOWER STREET AND GOWER PLACE
(adjoining University College)

MEDICAL AND SCIENTIFIC LENDING *LIBRARY*

Annual Subscription from

ONE GUINEA

Prospectus on application

Bi-Monthly List of New Books and New Editions added to the Library, post free to any address regularly

Special Department for Scientific and General Stationery.—Note Books, Microscope Slide Boxes, Cover Slips, Card Index Cabinets, etc.

SECOND-HAND BOOKS. *A wide selection of recent editions of students' Textbooks at reduced prices.*

Address: 140 *GOWER STREET.*

Please write for catalogues, stating requirements

H. K. LEWIS & Co. Ltd.

136 GOWER STREET, LONDON, W.C.1

Warren St. Station (Underground Railway) | *Telephone: EUSton 4282 (5 lines)* | *Euston Sq. Station (Metropolitan Railway)*

KING'S COLLEGE LONDON

Principal:

WILLIAM REGINALD HALLIDAY, M.A., LL.D.

Special Prospectuses are issued for the following Faculties, in which full provision is made for courses for the Degrees of the University of London as well as University and College Diplomas.

Faculty of Arts.—General Subjects in Day and Evening Classes; Evening School of English, School of Spanish Studies.

Faculty of Natural Science.—General Subjects.

Faculty of Medical Science, including Dental Course.

Faculty of Engineering.—Civil, Mechanical, Electrical and Chemical.

Faculty of Laws.—Day and Evening Classes.

Faculty of Theology, including course for A.K.C. Diploma.

Department of Education.—Training for Secondary Teachers. Teacher's Diploma.

Department of Journalism

Valuable Scholarships and Prizes are awarded on the results of examinations held annually, and there are Entrance Scholarships and Exhibitions in the various Faculties.

Facilities are afforded for students desirous of proceeding to higher degrees, or of undertaking Post-graduate or Research Work.

Good Refectories with reasonable charges.

Full Union Society facilities and Athletic Ground.

Men's Hostels:—The Platanes, Champion Hill, S.E.5. The Theological Hall, Vincent Square, S.W.1, for theological students.

Women's Hostel:—58 Queensborough Terrace, W.2.

For further information apply to: **S. T. SHOVELTON, M.A., Secretary.**
Strand, W.C.2

PRACTICAL PROBLEMS IN TEACHING METHOD

DAVID F. ANDERSON, M.A., B.Ed. How can we best train the student of education in the practical technique of teaching? This work is an attempt to find a new approach to the problem. Here are presented "the corpses" of seventeen lessons—verbatim reports of everything said by teacher and pupils in the course of the lessons, and appended to each are "questions and answers." Its intention is to supply a concrete teaching situation in the verbatim report, and then by means of the questions to require the student to show how certain principles have been, or might be, applied to it. With a Foreword by Godfrey H. Thomson, D.Sc., Ph.D. **4s. 6d. net**

THE FACTORIAL ANALYSIS OF HUMAN ABILITY

By GODFREY H. THOMSON, D.Sc., Ph.D. A full account, including the most recent work, of the statistical theory of factorial analysis, written for the reader without any special mathematical training. The book closes with a discussion of the meaning of mental factors, their real or mathematical nature, and the dangers attending their use. **16s. net**

AN ECONOMIC GEOGRAPHY OF THE BRITISH EMPIRE

By R. OGILVIE BUCHANAN, M.A., B.Sc. (Econ.), Ph.D., F.R.G.S., F.R.E.S., *Lecturer in Geography, University of London, University College.* In this book, the main economic activities of the modern world have been picked out and emphasized in an attempt to write a *reasoned* account of the Economic Geography of the British Empire. **6s. 6d.**

A SYSTEMATIC REGIONAL GEOGRAPHY

By J. F. UNSTEAD, M.A., D.Sc., *sometime Professor of Geography in the University of London.* The aim of this series, which will be complete in four parts, is to provide a post-Matriculation course in Regional Geography suitable for University and Training College Students. **6s. 6d.**

Volume 1—THE BRITISH ISLES, 6s. 6d.; Volume 2—EUROPE *(ready shortly)*, **7s. 6d.; Volume 3—REGIONS OF THE WORLD** *(in active preparation).*

For further particulars (post free) write to

UNIVERSITY OF LONDON PRESS LTD.
10-11 Warwick Lane, London, E.C.4

THE

Royal Dental Hospital of London

SCHOOL OF DENTAL SURGERY

(UNIVERSITY OF LONDON)

LEICESTER SQUARE, LONDON, W.C.2

Men and Women Students are admitted for the curriculum for the B.D.S. Degree and the L.D.S. Diploma in October, January and May.

Hospital Practice. The School is furnished with modern equipment and the Clinic of the Hospital is unrivalled. Students may attend the operations in the In-Patient Department and chairside instruction is given by the Surgeon of the day. Special instruction is given in Advanced Operatic Technique and Orthodontics.

Dental Prosthetics. The Mechanical Laboratory is a spacious and fully equipped department under the direction of the Lecturer in Prosthetics.

House Appointments. Six Senior House Surgeons and eighteen ordinary House Surgeons are appointed every year.

Post-Graduate Instruction. Instruction can be arranged in all branches of Dental Surgery

Scholarships. A number of Scholarships, Bursaries and Prizes are awarded annually, including eight open Scholarships, ranging from £50 per annum.

Write for further particulars and School Calendar to THE DEAN.

LONDON HOSPITAL MEDICAL COLLEGE AND DENTAL SCHOOL

(UNIVERSITY OF LONDON)

THE LONDON HOSPITAL serves the East End of London, and with eight hundred and eighty-five beds is the largest Voluntary Hospital in England. The Out-Patient Department, which deals with a hundred thousand new patients per annum, is extensively used for teaching.

The size of the Hospital necessitates a large number of resident medical officers. Every year seventy resident house physicians and house surgeons and eighty salaried non-resident clinical assistants are appointed from among recently qualified students. The opportunities which these appointments offer for obtaining clinical experience are invaluable

THE MEDICAL COLLEGE is attached to the Hospital, and is staffed by Professors of Anatomy, Physiology, Bacteriology, Chemical Pathology, Morbid Anatomy and Medicine of the University of London.

ENTRANCE SCHOLARSHIPS AND PRIZES of the total value of £950 are awarded annually. Research Funds to the value of £113,000 permit of assistance being given to students and graduates engaged in medical research.

THE MEDICAL COLLEGE contains a modern Museum of Pathology and a Library provided with all the current medical periodicals in charge of a full-time librarian. There is also an Athenæum Club and Dining-Hall, a Gymnasium, a Fives Court, and two Squash Courts in the Students' Hostel. The Athletic Ground of 13 acres at Hale End is within easy distance of the Hospital.

Further details may be obtained from the Dean:

Dr. A. E. CLARK-KENNEDY, M.D., F.R.C.P.

Turner Street, LONDON, E.1

Who is always pleased to meet students wishing to see the Hospital and College, and to whom application for admission should be made.

MIDDLESEX HOSPITAL

MEDICAL SCHOOL

LONDON, W.1.

(University of London)

THE WINTER SESSION opens in October

THE MEDICAL SCHOOL and Hospital occupy a central position within a few minutes' walk of Oxford Circus. They are fully equipped for teaching the entire medical curriculum, both for University Degrees and the Conjoint courses.

The Hospital has been entirely rebuilt; the newly built quarters for the Resident Officers and Students afford greatly improved facilities. These, with other new buildings, including modern and well equipped Laboratories, give to the Middlesex Hospital and its Medical School the most up-to-date facilities obtainable in Great Britain. In addition, there is open a unit devoted to Clinical Research, containing 6 self-contained wards and a large Clinical Lecture Theatre. The wards of the Archway Hospital, Highgate, containing 600 beds, are also available for Medical and Surgical demonstrations for students of this Medical School.

RESIDENT APPOINTMENTS

36 Resident Appointments are open annually to newly qualified students.

THIRTEEN REGISTRARS are also appointed annually.

SCHOLARSHIPS AND PRIZES of a value exceeding one thousand pounds are awarded each year.

Large athletic grounds, common rooms, a well-equipped restaurant and gymnasium are provided. A squash racquets court is available.

The Students' Amalgamated Clubs include Rugby and Association Football, Hockey, Cricket, Sailing, Fencing, Golf, Rowing, Swimming, etc.

The Athletic Ground is nearly 19 acres in extent.

There is no accommodation for women students.

Further particulars and a prospectus may be obtained on application to R. A. FOLEY, F.C.C.S., School Secretary, Middlesex Hospital, Mortimer Street, W.1.

H. E. A. BOLDERO
M.A., D.M., F.R.C.P., DEAN

GUY'S HOSPITAL
MEDICAL AND DENTAL SCHOOLS

(UNIVERSITY OF LONDON)

LONDON BRIDGE, S.E.1

THE HOSPITAL, which is situated within two minutes of London Bridge Station, contains 621 beds available for Teaching.

BOTH THE MEDICAL AND DENTAL SCHOOL BUILDINGS have been entirely rebuilt in recent years. There is ample laboratory accommodation, and the Departments are equipped on the most modern lines.

The Schools are fully equipped for teaching the entire Medical and Dental Curriculum for any Degree or Diploma, and exceptional opportunities are afforded for Clinical Work and Research.

FIRST M.B. (LONDON) AND PRE-MEDICAL EXAMINATIONS

Special attention is drawn to the facilities afforded for the study of Chemistry, Physics, and Biology. These Departments have been rebuilt and brought entirely up to date, and the instruction covers the whole of the curriculum required for these Examinations.

SCHOLARSHIPS

Scholarships in Arts and Science, varying in value from £60 to £200, are awarded annually in April.

THE COLLEGE

affords accommodation for about 35 students, whilst The Students' Club contains Reading, Dining, and Smoking Rooms, and the Pavy Gymnasium.

THE CLUBS' UNION

provides opportunities for every kind of sport, and includes membership of the Physical Society and the Students' Club.

The Sports Ground is situated within 15 minutes by rail from London Bridge. Extensive alterations and improvements have recently been carried out. There is a Fives Court and Swimming Bath within the precincts of the Hospital.

Prospectuses of the Medical and Dental Schools, together with full particulars of Scholarships, including past papers, will be sent post free on application to—

THE DEAN, MEDICAL SCHOOL, GUY'S HOSPITAL, S.E.1

QUEEN MARY COLLEGE

(University of London)

Full Day Courses — General and Honours — in the Faculties of

Arts, Science and Engineering.

Medical Course

In conjunction with the London Hospital Medical College

FACILITIES FOR RESEARCH

Entrance Scholarships of £80 a year and Exhibitions of £30 a year for three years are given by the Drapers' Company on the result of the Inter-Collegiate Scholarship Board's Examination, also College Exhibitions to cover fees.

Halls of Residence for Men and for Women Students

Fees: Tuition from £25 : 2 : 0 a session
Residence £52–£56 a session

Further particulars from
J. A. M. ELLISON-MACARTNEY, *Registrar*

BIRKBECK COLLEGE

(UNIVERSITY OF LONDON)

Principal:

GEORGE SENTER, D.Sc., Ph.D., F.I.C.

COMPLETE EVENING COURSES

FOR THE DEGREES OF THE UNIVERSITY

in the Faculties of Arts and Science, and for the Academic Diploma in Geography.

Facilities for Post-graduate and Research Work are provided for Day and Evening Students.

Studentships to the value of over £800 awarded annually to Students of the College.

Particulars on application to

THE SECRETARY,
BIRKBECK COLLEGE, FETTER LANE, E.C.4

Westfield College
University of London

Residential College for 150 women which prepares for the Degrees of the University of London. Non-resident Students are also admitted. At the Scholarship Examination held annually, SCHOLARSHIPS from £100 to £30 are awarded for CLASSICS, GERMAN, FRENCH, ENGLISH, HISTORY, BOTANY, and MATHEMATICS.

TWO POST-GRADUATE STUDENTSHIPS of the value of £170 and £140 are offered annually to the graduates of any University.

Westfield College, Hampstead N.W.3

SOUTH-EASTERN AGRICULTURAL COLLEGE
WYE, KENT
(UNIVERSITY OF LONDON)

Principal: R. M. WILSON, B.Sc. (Agric.)
Secretary and Bursar: A. H. BIRD, M.A. (Oxon), Dip. Hort. (Wye)

THE College provides courses of instruction in Agriculture (British and Colonial) and Horticulture, in preparation for the following examinations: B.Sc. (Agric.), B.Sc. (Hort.), Dip. Agric. (Wye), Dip. Hort. (Wye), N.D.A. Residential College; farms 585 acres, comprising arable, pasture, orchards, forestry and hop plantations, poultry, glass-houses, market garden.

The instruction given meets the needs of young men who intend to take up farming at home and abroad, and who desire to secure posts as managers of estates, lecturers and organisers in agriculture, and on the agricultural staffs of Colonial Governments.

Many responsible and important posts are now held by past students of the College, which gives, through its Appointments Bureau, all possible assistance in placing qualified students in suitable employment.

An Illustrated Prospectus may be obtained on application to the Principal

UNIVERSITY OF LIVERPOOL

Prospectuses and full particulars of the following may be obtained on application to the REGISTRAR:

UNIVERSITY CALENDAR (Price 2s. 6d.; post free, 3s.).
FACULTIES OF ARTS, SCIENCE, MEDICINE, LAW, and ENGINEERING.
LIVERPOOL SCHOOL OF ARCHITECTURE.
DEPARTMENT OF CIVIC DESIGN.
INSTITUTE OF ARCHAEOLOGY.
DEPARTMENT OF EDUCATION.
LIVERPOOL SCHOOL OF SOCIAL SCIENCES AND ADMINISTRATION (including Economics, Commerce, Geography, Social Science, and Public Administration).
EXTRA-MURAL STUDIES.
DEPARTMENT OF PUBLIC HEALTH.
LIVERPOOL SCHOOL OF TROPICAL MEDICINE.
SCHOOL OF VETERINARY SCIENCE.
SCHOOL OF DENTAL SURGERY.
DOCTORATE IN PHILOSOPHY.
FELLOWSHIPS, SCHOLARSHIPS, STUDENTSHIPS, EXHIBITIONS, SPECIAL GRANTS AND PRIZES.
HALLS OF RESIDENCE.
QUALIFICATIONS FOR ENTRY UPON A DEGREE COURSE.
AWARD OF SCHOOL CERTIFICATES.
AWARD OF HIGHER SCHOOL CERTIFICATES.

STANLEY DUMBELL, *Registrar.*

UNIVERSITY COLLEGE OF NORTH WALES BANGOR

(A constituent College of the University of Wales)

Principal: D. EMRYS EVANS, M.A., B.Litt.

The Session opens in October.

The College Courses are arranged with reference to the Degrees of the University of Wales (B.A., B.Sc., B.D. and higher degrees). There are special departments for Agriculture, Forestry, Electrical Engineering and Music, and a department for the training of Elementary and Secondary teachers. The first-year course in Medicine may also be taken. There are Hostels for men and women students.

Entrance Scholarships and Exhibitions in value from £40 to £10 are offered annually in April, and a number of valuable In-College awards are made each session.

The cost of tuition and residence at the College need not exceed £100 per annum.

Full particulars as to courses, fees, and residence may be obtained on application to the Registrar.

UNIVERSITY OF LEEDS

DEGREES are awarded in Arts, Pure and Applied Sciences, Medicine, Surgery, and Dental Surgery, Law, Education, and Commerce.

DIPLOMAS are granted in Biblical Studies, Education, Educational Administration, Public Administration, Commerce, Social Organisation and Public Service, Geography, Biology, Civil, Mechanical, Electrical, and Gas Engineering, Coal Mining, Fuel and Metallurgy, Leather Manufacture, Textile Industries, Dyeing, Public Health, Psychological Medicine, Nursing, and Dental Surgery.

The Departments of the University are as follows:

FACULTY OF ARTS

GREEK — RUSSIAN
LATIN — SPANISH
ENGLISH — ITALIAN
FRENCH — HISTORY
GERMAN — PHILOSOPHY
PHILOSOPHY AND HISTORY OF RELIGION including Old Testament Studies and Hebrew
EDUCATION — GEOGRAPHY
MUSIC

FACULTY OF ECONOMICS AND COMMERCE

FACULTY OF LAW

FACULTY OF SCIENCE

MATHEMATICS — PHYSICS
CHEMISTRY (INORGANIC, ORGANIC, AND PHYSICAL)
ZOOLOGY — BOTANY
PHYSIOLOGY — GEOLOGY

FACULTY OF TECHNOLOGY

CIVIL, MECHANICAL, AND ELECTRICAL ENGINEERING
MINING
TEXTILE INDUSTRIES
COLOUR CHEMISTRY AND DYEING
LEATHER INDUSTRIES
COAL GAS AND FUEL INDUSTRIES, WITH METALLURGY
AGRICULTURE

FACULTY OF MEDICINE

ALL BRANCHES OF MEDICINE AND SURGERY, INCLUDING DENTISTRY AND PHARMACY

This Faculty is situated in the School of Medicine, in close proximity to the General Infirmary in which the Clinical Teaching is provided.

Prospectuses of any of the above Departments may be had on application to the REGISTRAR, The University, Leeds, 2, who will be glad to answer all inquiries.

UNIVERSITY COLLEGE, SOUTHAMPTON

Three Halls of Residence, organised on collegiate lines, accommodating 335 students.

Extensive Grounds and Playing Fields. Rowing.

The College is organised in Faculties of Arts, Pure Science, Engineering, Education, Economics and Commerce, and in Departments of Law, Music and Navigation. Special facilities for Research are provided in each Faculty.

The Degrees awarded to students of the College are those of the University of London.

Inclusive fee for Tuition and Residence, £95-£110.

Numerous Scholarships from £40-£100 per annum are awarded annually.

A Calendar of the College may be obtained free on application to the REGISTRAR

University College

LEICESTER

The College offers courses for the External Degrees of London University in Arts, Science, Economics, Commerce and Law. Some of these courses are suitable for students who wish to take the first examination in Agriculture, Dental Surgery, Medicine and Veterinary Science.

Inclusive Tuition Fee, £25 per annum

Post-graduate one-year course for the training of teachers, approved by the Board of Education, and with the usual grants.

Fee payable by student, £12

Department of Extra-Mural Education

HOSTEL FOR WOMEN STUDENTS

OPEN SCHOLARSHIPS, of the value of £50 and £30 per annum, and a number of Bursaries are offered each year.

Prospectus free on application to the Registrar

UNIVERSITY OF BIRMINGHAM

Faculties

SCIENCE.

Subjects : Mathematics, Physics, Chemistry, Zoology, Botany, Geology, Engineering (Mechanical, Civil, Electrical), Metallurgy, Mining, Oil Engineering and Refining, Malting and Brewing and other Industrial Fermentation Processes, Anatomy and Physiology.

ARTS.

Subjects : Latin, Greek, English, French, German, Italian, Spanish, Russian, Philosophy, History, Geography, Economics, Music, Fine Arts.

MEDICINE.

All subjects leading to Degrees and Diplomas in Medicine and Dentistry.

COMMERCE.

Economics and allied subjects leading to Degrees in Commerce.

LAW.

Subjects leading to Degrees in Law.

All Courses and Degrees are open to both men and women students.

Separate syllabuses are published with full information as to Lecture and Laboratory Courses, Fees, Regulations for Degrees, Diplomas, etc., Scholarships and Exhibitions, Halls of Residence for men and for women and will be sent on application to the Registrar.

UNIVERSITY OF BRISTOL

FACULTY OF ARTS

Degrees of B.A., B.A. (Com.), M.A., Ph.D., D.Litt., Diplomas in Education and in Public Administration. Testamurs in Social Study & Arts Subjects. An alternative curriculum for the degree of B.A. is offered for Theological students. Certificate in Biblical Studies. The Department of Education provides training for Teachers for Elementary and Secondary Schools.

FACULTY OF SCIENCE

Degrees of B.Sc., B.Sc. (Agr.), B.Sc. (Dom.Sc.), M.Sc., Ph.D., D.Sc. Certificate in Applied Bacteriology.

FACULTY OF MEDICINE

Degrees of M.B., Ch.B., Ch.M., Ph.D., M.D., B.D.S., M.D.S., Diploma in Dental Surgery. Training Course for Health Visitors. Midwife Teachers' Certificate.

FACULTY OF ENGINEERING

Degrees of B.Sc., M.Sc., Ph.D., D.Sc. Diploma in Engineering.

FACULTY OF LAW

Degrees of LL.B., LL.M., LL.D. Lectures for Articled Clerks.

ENTRANCE SCHOLARSHIPS.—Particulars may be obtained on application to the Registrar.

The University also conducts examinations for the First and Higher School Certificates.

The University provides Halls of Residence, a University Union and extensive Athletic Grounds (32 acres) for Men and Women Students.

Prospectuses may be obtained free of charge on application to the Registrar

UNIVERSITY COLLEGE, NOTTINGHAM

The College was opened in 1881 and was transferred in 1928 to new buildings in University Park, on the western outskirts of Nottingham. The College grounds extend for about sixty acres, and, in addition, playing-fields of about forty acres are immediately adjacent to the buildings and to two of the Halls of Residence.

Degree Courses for the University of London external degrees in Arts, Music, Economics, Commerce, Laws, Pure Science, Pharmacy, Agriculture and Horticulture (in conjunction with the Midland Agricultural College), Engineering, Mining and the First examination for Medical degrees.

Diploma Courses in Education, Adult Education, Commerce, Social Studies, Technical Mycology, Geography, Pharmacy, Engineering, Mining, Fuel Technology and Textiles.

Research Facilities in all departments.

Courses in English for Foreign Students.—(*a*) Certificates of Proficiency in English; (*b*) Diploma in English Studies. Tuition Fees: (*a*) Certificate of Proficiency—£5 : 15s. per term: (*b*) Diploma in English Studies—1st term, £5; 2nd and 3rd terms, £8 : 8s.; together with a Registration and Union fee of £2 : 5s. for the session. Residence: (i.) In a Hall of Residence—Men, £24 per term; Women, £22 : 10s. per term; (ii.) With a private family, £2 : 2s. per week.

Halls of Residence for men and women students in and adjoining University Park.

Cost of a Full-time Course £90 to £110 per annum including residence.

Prospectus giving full details of Entrance Scholarships, Courses, Fees, etc., free on application to the Registrar

ST. MARY'S HOSPITAL MEDICAL SCHOOL

(University of London)

TERMS BEGIN IN OCTOBER, JANUARY and APRIL

Exceptional Situation.

The situation of the Hospital and Medical School is unique, for while it is adjacent to a large poor district with a population of 500,000, it is also within a few minutes' walk of Kensington Gardens and an extensive residential district, in which students can live, and so avoid a daily wearisome journey to and from their work. Recent structural alterations include two new operating theatres and 75 additional beds.

Rebuilding of the Medical School.

Approximately £250,000 has been spent in rebuilding the Medical School and Laboratories. The New Buildings are now in use. Apart from the Laboratories, Class-rooms, and Theatres for all the subjects in the Curriculum, they include a Library, Restaurant, Students' Club, Billiard room, full-sized Swimming Bath, Squash Rackets Court, Gymnasium, Boxing ring, and an underground Garage for fifty cars.

Special Clinical Facilities.

The formation of Clinical Units in Medicine and Surgery has been an important advance in connection with the clinical teaching, and this has been further developed by the affiliation for teaching purposes of several of the Hospitals in the neighbourhood, bringing the total number of beds available for teaching up to 1000. By agreement with Queen Charlotte's Lying-in Hospital, all students of St. Mary's attend a short course of instruction there, without extra fee before entering upon their duties in the Maternity District of St. Mary's.

Research Studentships.

A considerable sum is devoted annually to research, and a part of this is applied to the upkeep of Research Scholarships, designed to enable students recently qualified to learn the technique of research work.

Entrance Scholarships.

All Entrance Scholarships are awarded annually in June as a result of nomination by Headmasters or Heads of Colleges.

The Geraldine Harmsworth Scholarship (£200) and other University Scholarships are awarded annually.

Appointments after Qualification.

Numerous appointments are open to newly qualified members of the Medical School. Six House Physicians (eight months), ten House Surgeons (six to eight months), and four Resident Obstetric Officers (six months) are appointed annually. Two Resident Anæsthetists (six months), £150 per annum, four Casualty House Surgeons (six months), £100 per annum, with board and residence. Two Medical Registrars, and Surgical Registrar, £200 per annum, with partial board. Obstetric Registrar and Radium Registrar, each £50 per annum, with partial board.

Limitation of Numbers.

The School has decided that in future only Students who have matriculated, or obtained exemption from matriculation at one of the Universities, will be admitted.

Athletic Ground.

The Old Merchant Taylors' Ground at Teddington (13 acres) has been acquired. On sand, it remains dry throughout the winter.

Fees.

The Composition Fee for the entire Curriculum is £205.
The Composition Fee for the Clinical portion of the Curriculum is 95 guineas.
The Fee for the Amalgamated Club is 4 guineas per annum.

Further details may be obtained from the Dean, Sir Charles Wilson, M.C., M.D., F.R.C.P., who is always ready to see students who are thinking of coming to St. Mary's.

DEIGHTON, BELL & CO., LTD.

13 TRINITY STREET, CAMBRIDGE

SPECIALIZE IN ALL BOOKS REQUIRED BY STUDENTS & UNIVERSITY LIBRARIES

ENGLISH & FOREIGN
NEW & SECONDHAND

PROMPT MAIL ORDER SERVICE.
CATALOGUES FREE.

Telephone: CAMBRIDGE 3939. ESTABLISHED 1700.

EVERYTHING FOR STUDENTS AND BOOKLOVERS

LAMLEY & CO.

THE SOUTH KENSINGTON BOOKSHOP

1, 3 & 5 EXHIBITION ROAD, LONDON, S.W.7

Telephone: Kensington 1276. Established 1875

BOOKSELLERS AND PUBLISHERS
Printers, Bookbinders and Stationers

All the books required at Universities or Colleges can be supplied by us. Out-of-print works searched for. We can obtain scientific works published here or abroad, and stock all the Text-Books, School Stationery, Artists' Materials, and Mathematical Instruments required for the use of Students at the various Colleges. Schools supplied with all necessaries.

University of Dublin.

Post-Graduate Courses, and Courses for Extern Students.

A.—*Courses leading to Degrees.*

The regulations under which graduates of the University and graduates of other Universities may qualify for the degrees of M.Sc., Ph.D. and B.Litt. are given in the pamphlet entitled "Terms and Exercises required for the several Degrees," which will be sent on application to the Assistant Registrar, Trinity College, Dublin.

Candidates for Degrees in Music are not required to be University Graduates. The regulations will be sent by the Assistant Registrar, Trinity College, Dublin.

B.—*Courses leading to Diplomas.*

Students who are not graduates of the University may be admitted to qualify for the Diplomas in Public Health, in Gynæcology and Obstetrics, and in Psychological Medicine. The regulations may be obtained from the Registrar of the School of Physic, Trinity College, Dublin.

Such students may also be admitted to the Diploma in Economics and Commercial Knowledge, and to the Diplomas in Geography, in the History of European Painting, in Education, and in Social Studies. The regulations for the former will be sent by the Registrar of the School of Commerce, Trinity College, Dublin; for the latter by the Assistant Registrar, Trinity College, Dublin.

C.—*Other Courses.*

1. Students who are not graduates of the University may, if sufficiently qualified, be permitted to attend the Courses provided in the different branches of Arts. Application is to be made to the Senior Lecturer, Trinity College, Dublin.

If leave is granted, they will be required to pay to the Bursar a fee of three guineas per Term for each Course taken.

2. The special class held to prepare candidates for the Examination for the Indian, Colonial, and Home Civil (Class I) Services is open to extern students.

Particulars may be obtained from the Registrar, Trinity College, Dublin.

3. A limited number of extern students may be admitted to pursue research work in the laboratories of the Departments of Experimental Physics, Chemistry, Botany, Geology, and Zoology. Application should be made to the Professor concerned, whose leave must be obtained in all cases.

4. Graduates in Medicine of this and other Universities are admitted to pursue research work in the Departments of Anatomy and Embryology, Physiology, Pathology, and Bacteriology. No fee is charged, beyond what is required to cover cost of materials. Application should be made in the first instance to the Dean of the Faculty of Physic, Trinity College, Dublin.

5. An intensive course in all branches of Medicine, lasting three weeks, is given during the Long Vacation, to which all qualified medical practitioners are admitted, if approved by the Professors of the School. Particulars may be obtained from the Registrar of the School of Physic, Trinity College, Dublin.

Manchester Municipal
COLLEGE OF TECHNOLOGY

Principal: J. E. MYERS, O.B.E., D.Sc. (Manchester)

DEGREE COURSES IN TECHNOLOGY

The Prospectus of University Courses gives particulars of the courses leading to the Manchester University Degrees (B.Sc.Tech., M.Sc.Tech., and Ph.D.) and Certificates in the Faculty of Technology, in the following Departments:—

MECHANICAL ENGINEERING
(Professor DEMPSTER SMITH, M.B.E., M.Sc.Tech., M.I.Mech.E.)

ELECTRICAL ENGINEERING
(Professor JOHN HOLLINGWORTH, M.A., D.Sc., M.Sc.Tech., F.C.G.I., M.I.E.E.)

MUNICIPAL ENGINEERING
(R. J. CORNISH, M.Sc., A.M.Inst.C.E., A.M.I.Mech.E., A.M.I.Struct.E., F.R.San.I.)

APPLIED CHEMISTRY, including General Chemical Technology, Metallurgy and Assaying, Fermentation Processes (including Brewing), Electro-Chemistry, Colouring Matters, Foodstuffs, Fuels, and Chemical Engineering
(Professor J. KENNER, D.Sc., Ph.D., F.R.S.)

TEXTILE CHEMISTRY (Bleaching, Dyeing, Printing and Finishing. Paper Manufacture)
(F. SCHOLEFIELD, M.Sc., F.I.C., F.T.I.)

TEXTILE TECHNOLOGY (Professor W. E. MORTON, M.Sc.Tech., F.T.I.)

BUILDING (W. B. MCKAY, M.Sc.Tech., M.I.Struct.E.)

INDUSTRIAL ADMINISTRATION (Post-Graduate Certificate Course)
(K. G. FENELON, M.A., Ph.D.)

The Prospectuses of Part-time Courses give particulars of evening courses in Engineering, Mathematics, and Physics, leading to the external degrees of London University in Engineering and Science.

MATHEMATICS DEPARTMENT (F. Bowman, M.A., M.Sc.Tech.)
PHYSICS DEPARTMENT (W. H. Taylor, Ph.D., D.Sc.)

Prospectuses will be forwarded free on application to the REGISTRAR, College of Technology, Manchester, 1.

BRIGHTON TECHNICAL COLLEGE

Principal:
W. MANSERGH VARLEY, M.A. (Cantab.), D.Sc. (Manchester), Ph.D. (Strasbourg).

COURSES OF STUDY.

Civil, Mechanical and Electrical Engineering
For the B.Sc. Eng. Degree or the National Diplomas of the Institution of Mechanical or Electrical Engineers.
Building, Constructional Engineering and Architecture
For Qualifications of the Institute of Builders, the Institute of Structural Engineers or the Royal Institute of British Architects.
Pure Science and Arts—For the B.Sc. and B.A. Degrees, or the Associateship of the Institute of Chemistry.
Pharmacy for the Chemist and Druggist and Pharmaceutical Qualifications of the Pharmaceutical Society and the B. Pharm. Degree.
Commerce in preparation for Banking and Shipping Offices and the like.

Moderate Fees. Ample facilities for Social and Athletic activities. Non-local Students reside in inspected and approved rooms. Students in all departments readily placed with leading firms throughout Great Britain on satisfactory completion of courses.

Calendar on application to the Chief Clerk, Technical College, Brighton.

WIGAN AND DISTRICT MINING AND TECHNICAL COLLEGE

FULL TIME COURSES IN

MINING

IN PREPARATION FOR THE

B.Sc. LONDON **COLLEGE DIPLOMA**

AND

MINE MANAGERS' CERTIFICATE

FEES PER SESSION:

Intermediate Degree and Diploma	12 guineas
Final Degree and Diploma	20 guineas
Mine Managers' Certificate	15 guineas

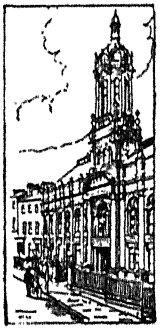
SCHOLARSHIPS and FREE STUDENTSHIPS

LIBRARY :: REFECTORY :: PLAYING FIELDS

CAREERS ABROAD

Past students of the College hold good positions in all kinds of mining (not only coal) in India, South Africa, the Gold Coast, Nigeria, Uganda, the Sudan, Canada, the U.S.A., Greece, etc. We are frequently asked to recommend qualified men, and, in fact, the demand exceeds the supply. Full particulars on application—

J. F. S. ROSS, M.C., B.Sc., Ph.D., *Principal*



BRADFORD
EDUCATION COMMITTEE

TECHNICAL COLLEGE BRADFORD

Systematic Day Courses for Diplomas and University Degrees in :—

Textile Industries
Chemistry
Dyeing
Mechanical and Automobile Engineering
Biology
Civil Engineering, Architecture and Building
Electrical Engineering
Commerce Languages and Banking
Pharmacy

Special facilities are available for advanced study and research. These courses are designed to meet the needs of students wishing to present themselves for the Degree Examinations of the University of London.

For further particulars and prospectus apply to the

PRINCIPAL, TECHNICAL COLLEGE, BRADFORD

BARCLAYS BANK (DOMINION, COLONIAL AND OVERSEAS)

OVER 500 BRANCHES IN
THE UNION OF SOUTH AFRICA
KENYA · TANGANYIKA · UGANDA · NYASALAND
NORTHERN AND SOUTHERN RHODESIA
PORTUGUESE EAST AFRICA
SOUTH-WEST AFRICA
BRITISH WEST AFRICA
GIBRALTAR · MALTA · CYPRUS
EGYPT · SUDAN · PALESTINE
MAURITIUS
BRITISH WEST INDIES
BRITISH GUIANA
LONDON : LIVERPOOL : MANCHESTER
HAMBURG : NEW YORK (AGENCY)

HEAD OFFICE:
54 LOMBARD STREET, LONDON, E.C.3

BARCLAYS BANK (CANADA)
MONTREAL AND TORONTO

J. WIPPELL & Co LTD

Established 18th Century

Clerical Tailors & Robe Makers



COLLEGE GOWNS,
16/6, 21/-, 25/-

M.A. & B.A. GOWNS,
30/-, 35/-, 45/-

COLLEGE CAPS 5/6, 6/6, 10/6

B.A. HOODS ... from 15/6

STUDENTS' CASSOCKS,
(Single Breasted) 30/-, 35/-, 42/-

STUDENTS' SURPLICES,
10/6, 14/-, 22/-

Patterns of Materials and Illustrated List on application.

Cash Discount of 2½ per cent. on orders over 20/-

EXETER:
55 & 56, HIGH ST.
& CATHEDRAL YARD.
'Phone: 54234

MANCHESTER:
24, KING ST.
'Phone: Blackfriars, 7967

LONDON:
11, TUFTON ST.
(Great Smith St.)
WESTMINSTER, S.W.1.
'Phone: Abbey, 4528.

KODAK

Service for Scientists

When considering the application of photography to your particular needs, remember that Kodak Ltd. has given exhaustive study to such specialized subjects as radiography and cardiography, photomicrography, spectroscopy and crystallography, time and motion analysis, oscillograph recording, etc., and is in an unrivalled position to supply all types of suitable material for these purposes.

Remember, too, that Kodak Ltd. is not only an unrivalled source of photographic equipment—it is a permanent source of technical information and a highly qualified staff of experts is always available for consultation.

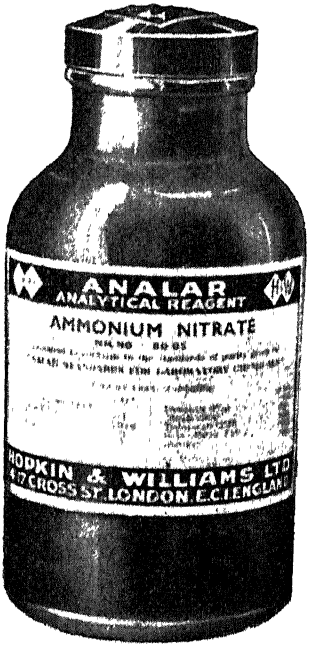
You are cordially invited to apply for full information about Kodak photographic equipment, outlining any specific work under consideration. Kodak technicians are always ready to consider the preparation of photographic material to individual specifications.

Your enquiries should be addressed to

KODAK PLATES

An unrivalled range for general and specialized photography

KODAK LTD., KODAK HOUSE, KINGSWAY, W.C.2



FINE CHEMICALS

for

Analytical, Pharmaceutical, Photographic, Research and Technical Purposes

STANDARD STAINS *and* INDICATORS

Our current price list of 112 pages is essential to every laboratory, and a copy of this comprehensive catalogue will be sent, post free, on application

HOPKIN & WILLIAMS, LTD.

16/17 St. Cross Street, Hatton Garden
LONDON, E.C.1

KEEP IN TOUCH WITH SCIENCE

by becoming
a regular subscriber to

NATURE

WEEKLY ONE SHILLING

The yearly subscription rates are

INLAND, £2 : 12 : 0 ABROAD, £2 : 17 : 0

A specimen copy will be sent free on application to

MACMILLAN & CO., LTD.

St. Martin's Street London, W.C.2

FOYLES

Booksellers to the World

New and Secondhand

BOOKS

on every subject

Stock of nearly three million volumes
Catalogues free on mentioning interests.

Enrolments taken for THE BOOK CLUB

119-125 CHARING CROSS ROAD, LONDON, W.C.2.
Telephone: GERRARD 5660 (14 lines)

INTERNATIONAL UNIVERSITY BOOKSELLERS LIMITED

The Bookshop for the *Faculty of Arts*

NEW and SECOND-HAND BOOKS
FOREIGN BOOKS
BOOKS BOUGHT
CATALOGUES FREE

94 Gower St., London, W.C.1
Telephone——————Euston 5106

PARKER'S·OXFORD

ENGLISH & FOREIGN : : NEW & SECOND HAND

BOOKSELLERS
SINCE
1798

CATALOGUES GRATIS : : BOOKS PURCHASED

PARKER AND SON, LTD
27 BROAD ST. & 21 TURL ST.
OXFORD

BOWES & BOWES

for

NEW BOOKS

We supply these in all Departments of Art, Literature and Science, and issue lists, free on request, regularly.

for

FOREIGN BOOKS

We have large stocks of German, French and Italian Books, and can obtain all Foreign Books from our various agents.

for

SECOND-HAND BOOKS

We can supply from stock second-hand books in all subjects, and, where this is not possible, search for and report, free of charge, scarce or out-of-print books. Catalogues are sent free on request.

Libraries and Smaller Collections of Books purchased

University Booksellers

1 & 2 TRINITY STREET

CAMBRIDGE

THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

1939

PUBLISHED FOR
THE UNIVERSITIES BUREAU
OF THE BRITISH EMPIRE
BY
G. BELL AND SONS, LTD
LONDON 1939

Reference

PREFACE

THE *Yearbook* was first published in 1914. Before its advent the official University Calendars were the only authentic sources of information regarding the personnel, organization, regulations and recent activities of Universities. When Universities were few and University men took but little interest in affairs of any except their own, the Calendars sufficed; but there are now seventy-one Universities in the British Empire and each takes a growing interest in the others. In the *Yearbook* such information has been collected as may be of interest to members of other Universities and Colleges, to Government Departments, clubs, school-masters and the public generally.

The sections dealing with the Universities of Great Britain and Ireland, of Canada, of Australia, of South Africa and of India, are prefaced by introductory chapters (periodically revised) treating briefly of their history, regulations and practice. The thanks of the Executive Council are due to the Australian Vice-Chancellors' Committee for the extensive revision, in this issue, of the introductory chapter to the Universities of Australia.

The information given under each University comprises:

(1) A directory of the officers and members of the staff of the University. This directory gives the degrees held by the teachers as well as the University by which they were granted, except where the degrees are those awarded by the University upon whose staff the teacher is serving. These degrees are indicated by being placed last. In cases where honorary degrees are too numerous to specify, the names of the Universities by which they were conferred are likewise omitted. With the exception of honours conferred by H.M. the King and by the French Republic, titles other than degrees are omitted, unless they throw light upon the standing of their holders in the subjects which they profess.

(2) General Information.

(3) Reports of events of outstanding interest which occurred during the previous academic year.

Information in respect of the recently established University of Travancore, Trivandrum, is contained in this issue.

Matters dealt with in the eleven Appendices include: admission to Universities, open postgraduate scholarships, centres of scientific

research and information, professional bodies, student organizations and other subjects of general interest.

For purposes of reference there are an Index of Names and a General Index.

The Executive Council of the Universities Bureau desire to acknowledge the assistance given by Universities as well as other Institutions and Government Departments in the annual revision of the *Yearbook*, but cannot accept responsibility for omissions or inaccuracies in the information supplied.

Universities Bureau of the British Empire,
88A Gower Street, London, W.C.1,
March 1939.

ADDENDA ET DELENDA

p. 43. *Archæology.* Minns, E. H., Prof. *Add* to 30.9.39.

p. 45. *Classics.* Lectrs. *Add* Griffith, G. T., M.A. Caius. *Delete* to 30.9.39 after names of Hammond, N. G. L., Jenkins, R. J. H. and Sinker, A. P.

p. 47. *German.* Faculty Asst. Lectrs. *Add* Blackall, E. A., B.A. and Brock, W., Ph.D. Berlin.

p. 48. *Mathematics.* Howarth, L., Lectr. *Delete* to 30.9.39.

p. 50. *Scandinavian Studies.* Tennant, P. F. D., Faculty Asst. Lectr. *Delete* to 30.9.39.

p. 82. *History.* *Add* Hughes, E., M.A. Manc. (from 1.10.39) Prof.

p. 96. *Chemistry, Physical.* *Delete* Dawson, H. M., Prof.

p. 97. *German.* Gough, C. E., Prof. *Add* to 30.9.39. Peacock, R., *now* Lectr. *from* 1.10.39 Prof.

p. 97. *History.* Thompson, A. Hamilton, Prof. *Add* to 30.9.39. *Add* Douglas, D. C., M.A. Ox. (from 1.10.39) (Med. Hist.) Prof.

p. 118. Shute Lecturer. *Add* 1939–40 James Bridie (Dr. O. H. Mavor) Sydney Jones Lecturer. *Add* 1939–40 Stanley Casson, M.A.

p. 160. Courtauld Institute of Art, Deputy Director. *Add* A. F. Blunt, M.A., Ph.D. Camb.

p. 161. *Art, History of.* Blunt, A. F., Teacher, *now* Reader and M.A., Ph.D. Camb. *instead of* B.A. Camb.

p. 174. *English Lang. and Lit.* White, Beatrice, M.I., Lectr. *Add* to 30.9.39.

p. 196. *Classics.* *Add* Meldrum, Margaret, B.A. Ox. (from 1.10.39) Asst. Lectr.

p. 196. *English Lang. and Lit.* Serjeantson, Mary S., Reader. *Add* to 30.9.39. *Add* White, Beatrice, M.I., M.A. (from 1.10.39) Lectr.

p. 233. *History.* Hughes, E., Lectr. *Add* to 30.9.39.

p. 249. *English.* Brett-Smith, H. F. B., Reader, *now* Goldsmiths' Reader.

p. 250. *History, Ancient.* *Add* Wade-Gery, H. T., M.C., M.A. Wad. (from 1.8.39) Wykeham Prof.

p. 257. Balliol College. Fellows. *Delete* Macgregor, D. C., M.A.

p. 267. Wadham College. Fellows. Wade-Gery, H. T. *Add* Wykeham Prof. (Ancient Hist.) from 1.8.39.

p. 336. *History.* Douglas, D. C., Prof. *Add* to 30.9.39.

p. 406. *Classics.* Meldrum, Margaret, Asst. *Add* to 30.9.39.

p. 467. *Physiology.* *Add* Davson, H., B.Sc. Lond. Asst. Prof.

CONTENTS

PAGE

ABBREVIATIONS OF TITLES viii

THE UNIVERSITIES BUREAU xi

MEMORANDUM AND ARTICLES OF ASSOCIATION . . . xii

MEMBERS AND THEIR REPRESENTATIVES xxv

THE EXECUTIVE COUNCIL xxviii

ANNUAL REPORT OF THE EXECUTIVE COUNCIL . . . xxx

GREAT BRITAIN AND IRELAND—

INTRODUCTORY CHAPTER 1

ENGLAND AND WALES—BIRMINGHAM, BRISTOL; CAMBRIDGE; DURHAM (including Durham Coll. and King's Coll., Newcastle); LEEDS; LIVERPOOL; LONDON (including University and King's Colls., the University Institutes, Imperial Coll. of Science and Technology, Queen Mary and Birkbeck Colls., School of Economics and Political Science; Agricultural Coll., Wye; School of Oriental Studies, Women's Colls., Theological Schools, Medical Schools, Institutions with Recognized Teachers); MANCHESTER; OXFORD; READING; SHEFFIELD; WALES (including Univ. Colleges at Aberystwyth, Bangor, Cardiff, Swansea, and the Welsh National School of Medicine, Cardiff) 19

UNIVERSITY COLLEGES—EXETER, NOTTINGHAM, SOUTHAMPTON, LAMPETER 335

SCOTLAND — ABERDEEN; EDINBURGH; GLASGOW (including Royal Technical College); ST. ANDREWS (including Univ. Coll., Dundee) 357

IRELAND — BELFAST, The Queen's University of; DUBLIN; IRELAND, National University of (including Univ. Colls. of Dublin, Cork, Galway) 405

CANADA—

INTRODUCTORY CHAPTER 435

ACADIA, Wolfville, N.S; ALBERTA, Edmonton; BISHOP'S COLLEGE, Lennoxville, Quebec; BRITISH COLUMBIA, Vancouver; DALHOUSIE, Halifax, N.S.; KING'S COLLEGE, Halifax, N.S.;

PAGE

LAVAL, Quebec; MCGILL, Montreal; MCMASTER, Hamilton, Ont.; MANITOBA, Winnipeg; MONTREAL; MOUNT ALLISON, Sackville, N.B.; NEW BRUNSWICK, Fredericton; OTTAWA; QUEEN'S, Kingston, Ont.; ST. FRANCIS XAVIER, Antigonish, N.S.; SASKATCHEWAN, Saskatoon; TORONTO (including Univ. of Trinity Coll. and Victoria Univ.); WESTERN ONTARIO, London . . . 446

AUSTRALIA—
INTRODUCTORY CHAPTER 577
ADELAIDE; MELBOURNE; QUEENSLAND, Brisbane; SYDNEY; TASMANIA, Hobart; WESTERN AUSTRALIA, Perth . . . 587

NEW ZEALAND—UNIVERSITY OF NEW ZEALAND (including Univ. of Otago, Canterbury Univ. Coll., Auckland Univ. Coll., Victoria Univ. Coll., Canterbury Agricultural Coll., Massey Agricultural Coll.) . 630

SOUTH AFRICA—
INTRODUCTORY CHAPTER 651
CAPE TOWN; SOUTH AFRICA (including Univ. Coll. of the O.F.S. and Huguenot, Natal, Potchefstroom, and Rhodes Univ. Colls.); PRETORIA; STELLENBOSCH; WITWATERSRAND, Johannesburg . 657

INDIA—
INTRODUCTORY CHAPTER 701
AGRA; ALIGARH MUSLIM UNIV.; ALLAHABAD; ANDHRA; ANNAMALAI; BENARES HINDU UNIV.; BOMBAY; CALCUTTA; DACCA; DELHI; LUCKNOW; MADRAS; MYSORE; NAGPUR; OSMANIA UNIV.; PANJAB; PATNA; TRAVANCORE . . 710

MALTA—UNIVERSITY OF MALTA 800
HONG-KONG—UNIVERSITY OF HONG-KONG 803
BURMA—UNIVERSITY OF RANGOON 807
MANDATED TERRITORY—PALESTINE—HEBREW UNIVERSITY OF JERUSALEM 814

UNATTACHED INSTITUTIONS AND COLLEGES

BANGALORE—INDIA—INDIAN INSTITUTE OF SCIENCE . . 818
CEYLON—UNIVERSITY COLLEGE; MEDICAL COLLEGE . . 820
MAURITIUS—COLLEGE OF AGRICULTURE 826
NEWFOUNDLAND—MEMORIAL UNIVERSITY COLLEGE . . 827
SINGAPORE—KING EDWARD VII. COLLEGE OF MEDICINE; RAFFLES COLLEGE 829
TRINIDAD, WEST INDIES—IMPERIAL COLLEGE OF TROPICAL AGRICULTURE 834

PAGE

APPENDICES

I. QUALIFICATIONS FOR ADMISSION TO A FIRST DEGREE IN THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND 838

II. POST-GRADUATE SCHOLARSHIPS, ETC., AND GRANTS FOR ADVANCED STUDY AND RESEARCH . . . 870

III. CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION 919

IV. PROFESSIONS AND CAREERS FOR WHICH UNIVERSITY STUDIES ARE A FITTING PREPARATION. CONDITIONS OF ENTRY TO OR OF QUALIFICATION FOR PROFESSIONAL DIPLOMAS OR MEMBERSHIP OF PROFESSIONAL INSTITUTIONS

1. His Majesty's Forces. 2. Accountants, Actuaries, etc. 3. Agriculture, Dairying, Horticulture, etc. 4. Architecture. 5. Auctioneers and Estate Agents. 6. Bankers. 7. Chemistry. 8. Engineers—Civil, Electrical, Mechanical, etc. 9. Industrial Administration. 10. Law—Barristers, Solicitors, etc. 11. Medicine and Surgery, etc. Medical and Dental Qualifications and Admission to Schools of Medicine and Dentistry. Postgraduate Medical Studies. Royal Colleges, Societies, etc. 12. Mining and Metallurgy (including Mining Engineering, Petroleum, etc.). 13. Ministry of the Churches. 14. Patent Agents. 15. Pharmaceutical Chemistry. 16. Physics. 17. Public Administration. 18. Secretaries. 19. Surveyors. 20. Textile Institute. 21. Teachers—Training, Interchange, Registration, etc. 22. Government Services, Home and Overseas. 991

V. LIBRARY FACILITIES AND LIBRARIANSHIP . . 1060

VI. STUDENT ORGANIZATIONS, BUREAUX OF INFORMATION AND OTHER ASSOCIATIONS 1063

VII. STUDENTS FROM OTHER COUNTRIES IN UNIVERSITIES OF GREAT BRITAIN AND IRELAND . . . 1069

VIII. UNIVERSITIES OF THE UNITED STATES OF AMERICA . 1071

IX. ANGLO-AMERICAN RELATIONS—PROFESSORSHIPS . 1074

X. INTERNATIONAL FEDERATIONS 1075

XI. SHORT BIBLIOGRAPHY 1080

INDEX OF NAMES 1085

GENERAL INDEX 1165

QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES REFERRED TO IN THE YEARBOOK BY LETTERS AFTER NAMES

[See also lists of medical qualifications in Appendix IV. 11. In the appendices relating to the various professional associations some account is given of the examinations, etc., whereby their qualifications are obtained. N.B.—The letters used in the *Yearbook* are not in all cases those authorized by the Associations; *e.g.*, M.Inst.C.E. is sometimes abbreviated to M.I.C.E., M.I.Mech.E. to M.I.M.E., F.Inst.P. to F.I.P.]

A.C.A. . . . Associate of Institute of Chartered Accountants.
A.C.G.I. . . . „ City and Guilds of London Institute.
A.C.I.S. . . . „ Chartered Institute of Secretaries.
A.F.C. . . . Air Force Cross.
A.F.R.Ae.S. . . Associate Fellow of Royal Aeronautical Society.
A.I.C. . . . „ of Institute of Chemistry.
A.I.M.M. . . . „ Institution of Mining and Metallurgy.
A.I.P. . . . „ Institute of Physics
A.K.C. . . . „ King's College.
A.L.S. . . . „ Linnaean Society.
A.M.C. . . . Art Master's Certificate.
A.R.A.M. . . . Associate of Royal Academy of Music.
A.R.C.A. . . . „ „ College of Art.
A.R.C.M. . . . „ „ „ Music.
A.R.C.O. . . . „ „ „ Organists.
A.R.C.S. . . . „ „ „ Science.
A.R.C.S.I. . . . „ „ „ Science, Ireland.
A.R.E. . . . „ „ Society of Painter Etchers.
A.R.I.B.A. . . . „ „ Institute of British Architects.
A.R.S.M. . . . „ „ School of Mines.
A.R.T.C. . . . „ „ Technical College, Glasgow.
A.R.W.S. . . . „ „ Society of Painters in Water-Colours.
A.S.A.A. . . . „ Society of Incorporated Accountants and Auditors.
A.T.I. . . . „ Textile Institute.
C.A. . . . Chartered Accountant.
C.A.Aust. . . . Chartered Accountant of Australia.
C.B.E. . . . Commander Order of British Empire.
C.D.A. . . . College Diploma in Agriculture.
C.D.H. . . . „ „ Horticulture.
C.G. . . . Croix de Guerre.
C.G.I. . . . City and Guilds Institute.
C.H. . . . Companion of Honour.
Chev. Lég. d'H. . . Chevalier de la Légion d'Honneur.
C.I.E. . . . Companion of the Order of the Indian Empire.
C.S.I. . . . „ „ „ Star of India.
D.F.C. . . . Distinguished Flying Cross.
Dip. d'E.S. . . . Diplôme d'Etudes Supérieures.
D.I.C. . . . Diploma of Imperial College of Science and Technology.
D.M.R.E. . . . „ in Medical Radiology and Electrology.
D.O.M.S. . . . „ in Ophthalmic Medicine and Surgery.
D.P.H. . . . „ in Public Health.
D.P.M. . . . „ in Psychological Medicine.
D.S.C. . . . Distinguished Service Cross (Naval).
D.S.O. . . . „ „ Order.
D.T.H. . . . Diploma in Tropical Hygiene.
D.T.M . . . „ „ Medicine.
D.V.S.M. . . . „ in Veterinary State Medicine.
F.A.C.S. . . . Fellow of the American College of Surgeons.
F.A.I. . . . „ Auctioneers' Institute.
F.B.A. . . . „ British Academy.

F.C.A. . . . Fellow of Institute of Chartered Accountants.
F.C.I.S. . . . „ the Chartered Institute of Secretaries.
F.C.O.G. . . . „ College of Obstetricians and Gynaecologists.
F.G.S. . . . „ Geological Society.
F.I.A. . . . „ Institute of Actuaries.
F.I.C. . . . „ „ Chemistry.
F.I.C.A. . . . „ „ Chemistry, Australia.
F.I.F. . . . „ „ Fuel.
F.I.P. . . . Fellow of the Institute of Physics.
F.I.S.E. . . . „ Institution of Structural Engineers.
F.L.A. . . . „ Library Association.
F.L.S. . . . „ Linnaean Society.
F.R.A.C.S. . . . „ Royal Australian College of Surgeons.
F.R.A.I. . . . „ „ Anthropological Institute.
F.R.A.M. . . . „ „ Academy of Music.
F.R.A.S. . . . „ „ Astronomical Society.
F.R.Ae.S. . . . „ „ Aeronautical Society.
F.R.C.M. . . . „ „ College of Music.
F.R.C.O. . . . „ „ „ Organists.
F.R.C.P. . . . „ „ „ Physicians, London.
F.R.C.P. Can. . . . „ „ „ „ Canada.
F.R.C.P.Ed. . . . „ „ „ „ Edinburgh.
F.R.C.P.I. . . . „ „ „ „ Ireland.
F.R.C.S. . . . „ „ „ Surgeons of England.
F.R.C.S.Can. . . . „ „ „ „ Canada.
F.R.C.S.Ed. . . . „ „ „ „ Edinburgh.
F.R.C.S.I. . . . „ „ „ „ Ireland.
F.R.C.V.S. . . . „ „ „ Veterinary Surgeons.
F.R.F.P.S. Glas. . . . „ „ Faculty of Physicians and Surgeons of Glasgow.
F.R.I.B.A. . . . „ „ Institute of British Architects.
F.R.S. . . . „ „ Society.
F.R.S.C. . . . „ „ Society of Canada.
F.S.A. . . . „ Society of Antiquaries.
F.S.A.A. . . . „ „ Incorporated Accountants and Auditors.
F.S.I. . . . „ Surveyors' Institute.
F.T.I. . . . „ Textile Institute.
Hon.R.C.M. . . Honorary Member of the Royal College of Music.
K.H.C. . . . Hon. Chaplain to the King.
K.H.P. . . . Hon. Physician to the King.
K.H.S. . . . Hon. Surgeon to the King.
L.C.P. . . . Licentiate of the College of Preceptors.
L.D.S. . . . „ in Dental Surgery.
L.M.S.S.A. . . . „ in Medicine and Surgery, Society of Apothecaries, London.
L.R.A.M. . . . „ Royal Academy of Music.
L.R.C.P. . . . „ of the Royal College of Physicians, London.
L.R.C.P.I. . . . „ „ „ „ Ireland.
L.R.C.P. and S. Ed. . . . „ „ Colleges of Physicians and Surgeons of Edinburgh.
L.R.C.S.I. . . . „ „ College of Surgeons, Ireland.
L.R.F.P.S. Glas. . . . „ „ Faculties of Physicians and Surgeons of Glasgow.
L.R.I.B.A. . . . „ „ Institute of British Architects.
L.S.A. . . . „ of the Society of Apothecaries.
M.Amer.I.E.E. . . Member of the American Institute of Electrical Engineers.
M.Amer.I.M.E. . . „ „ Institute of Mining Engineers
M.Amer.S.C.E. . . „ „ Society of Civil Engineers.
M.C. . . . Military Cross.
M.C.O.G. . . . Member of College of Obstetricians and Gynaecologists.
M.E.I.C. . . . „ the Engineering Institute of Canada.
M.I.Ae.E. . . . „ Institution of Aeronautical Engineers.
M.I.A.E. . . . „ „ Automobile Engineers.
M.I.Chem.E. . . . „ „ Chemical Engineers.
M.Inst.C.E. . . . „ „ Civil Engineers.
M.Inst.E.E. . . . „ „ Electrical Engineers.
M.I.Mech.E. . . . „ „ Mechanical Engineers.
M.Inst.M. and Cy.E. . . „ „ Municipal and County Engineers.
M.I.Min.E. . . . „ „ Mining Engineers.
M.Inst.M.M. . . . „ „ „ and Metallurgy.
M.I.N.A. . . . „ „ Naval Architects.
M.Inst.Pet. . . . „ the Institute of Petroleum.

M.I.Struct.E. . . Member of the Institute of Structural Engineers.
M.Inst.T. . . . „ „ Transport.
M.M. . . . Military Medal.
M.M.S.A. . . . Diploma of Mastery of Midwifery of Society of Apothecaries.
M.N.Z.S.C.E. . . Member of the New Zealand Society of Civil Engineers.
M.P.S. . . . „ the Pharmaceutical Society.
M.R.C.P. . . . „ the Royal College of Physicians, London.
M.R.C.P.Ed. . . . „ „ „ „ Edinburgh.
M.R.C.P.I. . . . „ „ „ „ Ireland.
M.R.C.S. . . . „ „ „ Surgeons of England.
M.R.C.S.I. . . . „ „ „ „ Ireland.
M.R.C.V.S. . . . „ „ „ Veterinary Surgeons.
M.R.I.A. . . . „ „ Institute of Anthropology.
M.R.S.I. . . . „ „ Sanitary Institute.
M.S.A. . . . „ the Society of Architects.
M.T.P.I. . . . „ the Town Planning Institute.
N.D.A. . . . National Diploma in Agriculture.
N.D.D. . . . „ „ Dairying.
N.D.H. . . . „ „ Horticulture.
N.D.P. . . . „ „ Poultry Husbandry.
N.F.U. . . . „ Froebel Union.
N.L. . . . Nobel Laureate.
O.A. . . . Officier de l'Académie.
O.B.E. . . . Officer Order of British Empire.
O.I.P. . . . Officier de l'instruction publique.
O.Lég. d'H. . . . „ de la Légion d'Honneur.
O.M. . . . Order of Merit.
O.M.I. . . . Oblate Father of Mary Immaculate.
P.A.S.I. . . . Professional Associate of the Surveyors' Institution.
Ph.C. . . . Registered Pharmaceutical Chemist.
S.S.C. . . . Solicitor of the Supreme Court.
T.D. . . . Territorial Decoration.
V.D. . . . Volunteer Officers' Decoration.
W.S. . . . Writer to the Signet.

THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

88A Gower Street, London, W.C.1 (entrance in Torrington Place).
Telegrams and Cables: "Uniburb, London."
Telephone: Euston 5164.

AT the final meeting of the Congress of 1912 the delegates resolved that steps be taken for the formation in London of a Bureau of Information for the Universities of the Empire. In the spring of 1919 the Government offered a non-recurrent grant of £5000 to enable the Committee to secure and furnish premises suitable for the wide activities which the Bureau had developed, on condition that the Universities of the Empire undertook to provide funds adequate to its maintenance, and the Bureau was incorporated under licence of the Board of Trade. The Committee thereupon purchased the lease of No. 50 Russell Square. In 1930 the lease of these premises was sold and new offices were built at 88A Gower Street (in Torrington Place), W.C.1, on a site the lease of which was taken from the University of London. At the Fourth Quinquennial Congress of Universities of the Empire, held in Edinburgh in July 1931—the Second having been held at Oxford in 1921 and the Third, at Cambridge in 1926—new Articles of Association for the reorganization of the Bureau were considered by the delegates of the 69 Universities represented, and, subject to certain amendments, approved. The Articles were submitted in September 1931 to the Board of Trade which accorded its approval, subject to the deletion from Article 3 of the following proviso: "Provided that the powers of the Association shall not be exercised in any such way as to purport to restrict the powers and duties exercised by the constituent members under the several charters, statutes, regulations and other instruments of their self-government."

The Articles were approved at an Extraordinary General Meeting of the Association held on September 24, 1932. At the same Meeting the Association expressed its adherence to the principles of policy stated in this proviso.

At an Extraordinary General Meeting of the Association held at Cambridge on July 14, 1936, minor amendments of Schedule A were approved. The Memorandum and Articles of Association immediately follow.

MEMORANDUM AND ARTICLES OF ASSOCIATION OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

(The word " Limited " being omitted by Licence of the Board of Trade)

MEMORANDUM OF ASSOCIATION

1. The name of the Association is " THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE."
2. The registered office of the Association will be situate in England.
3. The objects for which the Association is established are :—
 (1) To take over and accept by way of gift or otherwise such of the assets and property of the unincorporated Universities Bureau of the British Empire, established in 1912, as the Association may lawfully acquire and to carry on and continue the undertaking and activities of the said Bureau.
 (2) To collect and distribute information from time to time on matters of interest to the Universities of the British Empire.
 (3) To arrange conferences and congresses and otherwise to facilitate communication and the interchange of information between the said Universities and between them and the Governments and other public bodies and learned institutions and societies of the British Empire and the Governments, Universities and other bodies of foreign countries.
 (4) To facilitate the interchange of students and teachers between the said Universities and between them and the Universities of foreign countries.
 (5) To establish and maintain a central office in London which shall serve, amongst other things, as a secretariat for the standing Committee of Vice-Chancellors and Principals of Universities in the United Kingdom and for any other Committees which the Universities may from time to time appoint.
 (6) To establish and maintain offices in any other parts of the United Kingdom or in any state, colony, or dependency of the British Empire or in any foreign country or state, to form centres and secretariats for the work and activities of the Association.
 (7) To print, publish and circulate handbooks, periodicals, circulars, leaflets and other publications with a view to making known and to furnishing and disseminating information about and encouraging interest in the objects, work and activities of the Association in any part of the world, and generally in connexion with the carrying out of its objects.

(8) To invite and collect subscriptions and donations to the funds of the Association by any lawful means.

(9) To co-operate with other associations having similar objects with a view to the promotion of the objects of this Association.

(10) To make, accept, endorse, discount and execute promissory notes, bills of exchange and other negotiable instruments.

(11) To invest the moneys of the Association not immediately required for the purposes of the Association in or upon such securities and in such manner as may from time to time be deemed expedient provided that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners or Board of Education shall not be invested except in such securities and with such sanction (if any) as may for the time being be required by law.

(12) To borrow or raise money for the purposes of or in connexion with the Association's objects and to secure the same by mortgage or charge of any property of the Association or by the issue of debentures or debenture stock, charged on its undertaking or otherwise, or in any other manner as may be deemed expedient.

(13) To do all such other things as may be thought calculated to promote the interests and well-being of the Universities of the British Empire or any of them.

(14) To do all such other things as may be incidental or conducive to the attainment of the above objects or any of them.

Provided that the Association shall not support with its funds any object or endeavour to impose on or procure to be observed by its Members or others any regulation, restriction or condition which if an object of the Association would make it a Trade Union.

Provided also that in case the Association shall take or hold any property subject to the jurisdiction of the Charity Commissioners or Board of Education for England and Wales, the Association shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law, and as regards any such property the Managers or Trustees of the Association shall be chargeable for such property as may come into their hands, and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as they would as such Managers or Trustees have been if no incorporation had been effected, and the incorporation of the Association shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Board of Education over such Managers or Trustees, but they shall, as regards any such property, be subject jointly and separately to such control or authority as if the Association were not incorporated. In case the Association shall take or hold any property which may be subject to any trusts, the Association shall only deal with the same in such manner as allowed by law having regard to such trusts.

4. The income and property of the Association, whencesoever derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association; and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, or otherwise howsoever by way of profit, to the Members of the Association.

Provided that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration to any officer or servant of the Association, or to any Member of the Association, in return for any services actually rendered to the Association, nor prevent the payment of interest at a rate not exceeding 5 per cent per annum on money lent or reasonable and proper rent for premises demised or let by any Member to the Association; but so that no Member of the Executive Committee or Governing Body of the Association shall be appointed to any salaried office of the Association, or any office of the Association paid by fees, and that no remuneration or other benefit in money or moneys worth shall be given by the Association to any Member of such Committee or Governing Body except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Association; Provided that the provision last aforesaid shall not apply to any payment to any railway, gas, electric lighting, water, cable or telephone company of which a Member of the Executive Committee or Governing Body may be a Member or any other company in which such Member shall not hold more than one-hundredth part of the capital, and such Member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration, or amendment shall be made to or in the regulations contained in the Articles of Association for the time being in force, unless the same shall have been previously submitted to and approved by the Board of Trade.

6. The 3rd and 4th Paragraphs of this Memorandum contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of Section 20 of the Companies (Consolidation) Act, 1908.

7. The liability of the Members is limited.

8. Every Member of the Association undertakes to contribute to the assets of the Association, in the event of the same being wound up during the time that he is a Member, or within one year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges and expenses of winding up the same, and for the adjustment of the rights of the contributories amongst themselves, such amount as may be required not exceeding One Pound.

9. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other institution or institutions having objects similar to the objects of the Association, and which shall prohibit the distribution of

its or their income and property amongst its or their Members to an extent at least as great as is imposed on the Association under or by virtue of Clause 4 hereof, such institution or institutions to be determined by the Members of the Association at or before the time of dissolution, or in default thereof by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter, and if and so far as effect cannot be given to the aforesaid provision then to some charitable object.

10. True accounts shall be kept of the sums of money received and expended by the Association, and the matter in respect of which such receipts and expenditure take place, and of the property, credits, and liabilities of the Association; and, subject to any reasonable restrictions as to the time and manner of inspecting the same that may be imposed in accordance with the regulations of the Association for the time being, shall be open to the inspection of the Members. Once at least in every year the accounts of the Association shall be examined, and the correctness of the balance-sheet ascertained by one or more properly qualified Auditor or Auditors.

ARTICLES OF ASSOCIATION

Preliminary

1. The number of the Members of the Association is declared not to exceed 100, but the Council may at any time register an increase in the number of the Members.

2. These Articles shall be construed with reference to the provisions of the Companies Act, 1929, and terms used in these Articles shall be taken as having the same respective meanings as they have when used in that Act.

3. The Association is established for the purposes expressed in the Memorandum of Association.

Membership

4. The Members of the Association shall consist of corporate bodies with the following status:—

(*a*) *Ordinary Members* who shall be (i.) such of the Universities specified in Schedule A attached to these Articles as sign the undertaking required by Article 5, and (ii.) such Universities situate within the British Empire, which may be hereafter incorporated, as are admitted members by the Council in accordance with such regulations as may be framed by the Council in this behalf.

(*b*) *Associate Members* who shall be such Universities in mandated territories and such other institutions being University Colleges or Colleges of Universities within the Empire (being corporate bodies), as may hereafter be admitted members by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

(*c*) *Such other classes of members* (consisting of corporate bodies) as may from time to time be admitted by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

5. Every Member shall sign an undertaking in such form as the Council may require to observe and perform all the conditions and provisions of the regulations of the Association for the time being in force, and thereupon the name of such Member shall be entered in the register of Members of the Association.

6. Ordinary Members shall have full rights of membership. Other Members shall be entitled to such of the privileges and benefits of the Association as may be assigned to them from time to time by the Council.

7. Every Member shall nominate a person to act as its representative. Such nomination shall be in writing and shall be deposited at the registered office of the Association. Such representative shall have the right on behalf of the Member to exercise all such rights of membership as may have been assigned to such Member by these Articles or by Regulations framed by the Council. A Member may from time to time in writing revoke the nomination of such representative, and nominate another representative in his place.

8. Any Member may withdraw from the Association by giving notice in writing to the Secretary before the expiration of any financial year, and on paying with such notice any unpaid subscription for the current year. Thereupon such Member shall be deemed to have ceased to be a Member from the date of the expiration of such financial year.

9. Upon the retirement of any Member by notice as stated in Article 8 the Member shall not be entitled to any repayment of any subscription or any part thereof paid for the current year.

10. The rights of any Member shall not be transferable and shall cease upon the Member failing to pay the annual subscription within twelve months of its becoming due. Any such Member may be readmitted to membership upon payment of the subscription for the year during which its membership lapsed.

Duties of Members

11. Every Member of the Association shall be bound :—

(*a*) To pay to the Association such minimum annual subscriptions for the various classes of members as may be fixed by the Association at its first General Meeting after the adoption of these Articles, and as may subsequently be fixed from time to time at Extraordinary Meetings held during the progress of Quinquennial Congresses, under the provisions of Article 35.

(*b*) To observe the provisions of these presents and of the Memorandum of Association and all the bye-laws, rules and regulations of the Association for the time being in force.

Council of the Association

12. The Executive of the Association shall be a Council consisting

of 21 persons chosen from the representatives of Ordinary Members as follows :—

Member Universities of			Great Britain and Ireland	9 representatives
,,	,,	,,	Canada	3 ,,
,,	,,	,,	Australia	2 ,,
,,	,,	,,	New Zealand	1 representative
,,	,,	,,	South Africa	2 representatives
,,	,,	,,	India	3 ,,
,,	,,	,,	other parts of the British Empire	1 representative.

13. The Members of the Council shall be appointed by the Association in General Meeting for a period of one year on the respective nominations of the Ordinary Members of the Association for the several territories specified in Article 12.

14. The office of a Member of the Council shall *ipso facto* be vacated if his appointment as a representative of a Member is withdrawn by the Member appointing him, or if the Corporation appointing him ceases to be a Member of the Association.

15. Casual vacancies shall be filled by the Council from amongst the representatives nominated by Ordinary Members under the provisions of Article 7. The person so appointed shall hold office until the Annual Meeting next after his appointment, but he shall then be eligible for re-election if nominated in accordance with the terms of Article 13.

16. No act or resolution of the Council shall be invalidated by reason of the existence of any vacancy or vacancies among Members of the Council, but if the number of Members of the Council shall be reduced below 13 the continuing Members may act for the purpose only of filling vacancies or summoning a General Meeting of the Association.

17. The Council shall manage and control all matters relating to the management and organization of the Association and may exercise all such powers of the Association as are not by the Companies Act, 1929, or by these Articles required to be exercised by the Association in General Meeting subject nevertheless to any regulation of these Articles, to the provisions of the said Act, and to such regulations being not inconsistent with the aforesaid regulations or provisions, as may be prescribed by the Association in General Meeting; but no regulation made by the Association in General Meeting shall invalidate any prior act of the Council, which would have been valid if that regulation had not been made.

18. The Council may appoint, in consultation with the appropriate groups of Universities, special Committees to study and report on questions of interest to the Universities in more than one region of the Empire and shall provide the necessary secretarial assistance for such Committees, but if such assistance involves exceptional expenditure, they may make it a condition of providing such assistance that a special subvention be made by the Universities concerned.

19. The Council shall study and report on, either by means of special Committees or otherwise as may be appropriate in each case, any questions referred to them by any Conference or Congress of Universities,

but if exceptional expenditure is involved they may make it a condition of undertaking the inquiry that a special subvention be made by the Universities concerned.

20. The Council may elect a Chairman of their meetings and determine the period for which he is to hold office, but if no such Chairman is elected, or if he should not be present at the commencement of any meeting of the Council, the members of the Council shall select a Chairman from those present for that meeting.

21. The Chairman of the Council may at any time, and the Secretary upon the request of six Members of the Council shall, convene a meeting of the Council. In the case of a meeting convened at the request of six Members the notice of meeting shall state the character of the business to be discussed, and only business of which notice shall have been so given shall be discussed at that meeting. Each Member of the Council shall name an address in the United Kingdom at which all notices shall be served upon him, and all notices served at such address shall be deemed to be well served. Questions arising at any meeting of the Council shall be decided by a majority of Members present and voting at such meeting. In the event of the votes being equally divided the Chairman shall have a second or casting vote.

22. The quorum for a meeting of the Council shall be five.

23. A meeting of the Council for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of Association for the time being vested in or exerciseable by the Council generally.

24. The Council may delegate such of its powers as it considers desirable to any Committee consisting of Members of the Council.

25. The meetings and proceedings of any such Committee shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Council, so far as the same are applicable thereto.

26. The Council may from time to time appoint a Secretary of the Association and any other officers or servants who may be required for the performance of the business of the Association or of the Council and may from time to time appoint a temporary substitute for the Secretary who, in the absence of the Secretary, shall be deemed to be the Secretary.

27. All acts done by any meeting of the Council or by any person acting as a Member of the Council shall notwithstanding that it shall be afterwards discovered that there was some defect in the appointment of the Council, or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a Member of the Council.

28. Without prejudice to the generality of the powers conferred upon the Council by Article 17 the Council may from time to time frame regulations (*a*) generally to give effect to the provisions of the Memorandum of Association and of these Articles and (*b*) particularly for the following purposes :—

(1) for admitting Universities which may hereafter become corporations ;

(2) for admitting as Associate members Corporations which are Universities in mandated territories and other institutions

being University Colleges or Colleges of Universities within the Empire ;

(3) for assigning privileges of membership to (*a*) Associate members and (*b*) other classes of members ;

(4) for prescribing a form to be signed by members prior to admission as members ;

(5) for prescribing the manner in which the groups of Universities referred to in Article 12 shall appoint representatives ;

(6) for managing the business and defining the duties of the Association ;

(7) for delegating to Committees of the Council such of its powers as are not inconsistent with the provisions of these Articles ;

(8) for fixing the manner of the appointment of the special Committees referred to in Articles 18 and 19 ;

(9) for arranging for the provision of secretarial assistance to such Committees ; and for assessing any exceptional expenditure involved and distributing it amongst Universities concerned ;

(10) for determining the period for which the Chairman of the Council is to hold office ;

(11) for defining the manner in which the minutes of business transacted at meetings of the Association are to be recorded ;

(12) for providing for the custody of the seal and for determining the officer of the Association other than the Secretary who may countersign instruments to which the seal is attached ;

(13) for prescribing the form in which instruments appointing proxies shall be framed ;

(14) for prescribing the books of account which have to be maintained in accordance with the provisions of Article 60 ;

(15) for prescribing the place at which such books of account shall be kept.

Provided always that no regulation made by the Council shall have any validity or effect if it amounts to or involves such an alteration of or addition to these Articles as could only lawfully be made by Special Resolution.

Minutes

29. The Council shall cause minutes to be duly entered in books provided for the purpose of all business transacted at General and Extraordinary Meetings and at meetings of the Council and Committees thereof.

30. Any such minutes of any meeting of the Council or of Committees thereof, or of the Association, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be conclusive evidence of the matters stated in such minutes.

31. The Council shall submit to the Annual General Meeting of the Association a report of its work and activities during the preceding year.

Seal

32. The Council shall provide for the safe custody of the seal, and

the seal shall never be used except by the authority of the Council previously given, and in the presence of a Member of the Council, who shall sign every instrument to which the seal is affixed, and every such instrument shall be countersigned by the Secretary or some other person appointed by the Council.

General Meetings

33. A General Meeting of the Association shall be held once at least in every calendar year in London or such other University town and at such time as may be determined by the Council provided that a General Meeting shall be held within not more than fifteen months after the holding of the last General Meeting.

34. The above-mentioned General Meetings shall be called Ordinary Meetings, all other General Meetings shall be called Extraordinary Meetings.

35. An Extraordinary Meeting of the Association shall be held during the progress of each Quinquennial Congress of Universities of the Empire or within three days of the commencement or termination of that Congress.

36. Notwithstanding any provisions to the contrary in these Articles the Chairman shall have power at any Extraordinary Meeting summoned under the provisions of Article 35 to place on the agenda matters which have been the subject of a resolution passed by the delegates at the Quinquennial Congress during which the Extraordinary Meeting is being held.

37. The Council may whenever it thinks fit and it shall upon a requisition made in writing and signed by Members entitled to vote representing not less than one-tenth of the total voting rights of all the Members having at the date of the requisition a right to vote at General Meetings of the Association convene an Extraordinary Meeting. The Secretary shall at any time when required by the Chairman of the Council summon an Extraordinary Meeting.

38. Any requisition made by the Members of the Association entitled to vote as aforesaid shall express the object of the meeting proposed to be called and shall be left at the registered office of the Association.

39. Upon the receipt of such requisition the Council shall forthwith proceed to convene an Extraordinary Meeting and if they neglect to do so for twenty-one days from the time of the requisition being so left the requisitionists or any of them representing more than one half of the total voting rights of all of them may themselves convene the meeting in the same manner as nearly as possible as that in which meetings are to be convened by the Council.

40. The business of an Ordinary Meeting shall be :—

(*a*) To receive and consider the accounts, the balance sheet and the reports of the Council and the Auditors ;

(*b*) To appoint an Auditor or Auditors and fix his or their remuneration.

(*c*) To appoint the Members of Council in accordance with the provisions of Article 13.

All other business transacted at an Ordinary Meeting and all business transacted at an Extraordinary Meeting shall be deemed special. If any Member has any proposal or any matter which he wishes to make or bring before an Ordinary Meeting he shall give fourteen days' written notice thereof to the Secretary.

41. Subject to the provisions of Section 117 (2) of the Companies Act, 1929, relating to Special Resolutions, twenty-eight days' notice at the least (or in the case of a meeting convened pursuant to a requisition of Members fourteen days' notice at the least) exclusive of the day of giving the notice but inclusive of the day of the meeting, specifying the place, the day and hour of meeting and (in case of special business) the general nature of such business, shall be given by notice to the Members in manner hereinafter stated with reference to the giving of notices, but the accidental omission to give such notice to or the non-receipt of such notice by any Member shall not invalidate the proceedings of any meeting. It shall not be necessary to give notice of a meeting to a representative of a Member who has no registered address in the United Kingdom.

42. Except as otherwise provided by these presents no business shall be transacted at any General Meeting unless a quorum of Members entitled to vote is present at the time when the meeting proceeds to business.

43. A quorum shall consist of ten Ordinary Members.

44. If within half-an-hour from the time appointed for a meeting ten Ordinary Members entitled to vote are not present the meeting if convened upon a requisition of Members shall be dissolved but in any other case it shall stand adjourned to a place to be fixed by the Chairman and to a date to be fixed by the Chairman not earlier than two weeks and not later than one month after the date of the original meeting, and if at such adjourned meeting a quorum is not present but two or more Ordinary Members entitled to vote are present the Members present entitled to vote shall be a quorum and may transact the business for which the original meeting was called.

45. At any adjourned General Meeting the Ordinary Members present entitled to vote being two or more in number shall have the power to decide upon all matters which could properly have been disposed of at the meeting from which the adjournment took place had a sufficient number of Members entitled to vote been present at such meeting. Notice of the time and place fixed by the Chairman for an adjourned meeting shall be given to all Members entitled to receive notices of meetings.

46. The Chairman of the Council shall be the Chairman of every General Meeting, but if within fifteen minutes from the time appointed for holding the meeting he is not present the Members present at the meeting and entitled to vote shall choose a Member entitled to vote to act as Chairman in his place.

47. The Chairman may upon the resolution of the meeting adjourn any meeting from time to time and from place to place but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place.

48. No poll shall be demanded on the appointment of a Chairman or on a question of adjournment.

49. At any General Meeting unless a poll is demanded by at least two Members entitled to vote a declaration by the Chairman that a resolution has been carried or has been carried unanimously or by a particular majority or lost or not carried by a particular majority and an entry to that effect in the book of proceedings of the Association shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against such resolution.

50. If a poll is demanded by two or more Members entitled to vote it shall be taken in such manner as the Chairman directs and he shall have power to take the poll at once at the meeting or to adjourn the meeting for a reasonable time not exceeding fourteen days for the purpose of taking such poll and the result of such poll shall be deemed to be the resolution of the Association in General Meeting. In case of an equality of votes at any General Meeting the Chairman shall be entitled to a second vote or casting vote.

51. Minutes of all resolutions and proceedings at General Meetings signed by any person purporting to be the Chairman of the Meeting at which such Minutes were signed as correctly recorded shall be conclusive evidence of the facts therein stated.

52. Nothing in these Articles shall preclude the Council from inviting any member of the teaching or administrative staff of a corporation or institution, which is an Ordinary Member or an Associate Member, to attend a General or Extraordinary Meeting of the Association, or any meeting of the Council or Committees thereof, provided that any person so attending any meeting shall not be entitled to vote at such meeting or to participate in any discussion on any subject other than that for the discussion of which he has been invited to attend.

Votes at General Meetings

53. Every Member entitled to vote represented directly or by proxy shall have one vote and no more at a General Meeting except the Chairman, who shall, in case of an equality of votes, have a second or casting vote.

54. Votes may be given either personally by the representative of a Member or by proxy given by such representative.

55. The instrument appointing a proxy shall be in writing under the hand of the appointer and may be in the following form :—

I of in the County of being the duly authorised representative of a Member of the Universities Bureau of the British Empire hereby appoint as my proxy to vote for me and on my behalf at the (Ordinary or Extraordinary or adjourned as the case may be) General Meeting of the Association to be held on the day of and at any adjournment thereof.

SIGNED this day of

Or in such other form as the Council shall approve.

56. Only representatives of Members entitled to vote shall be appointed proxies.

57. The instrument appointing a proxy shall be deposited at the registered office of the Association or delivered to the Secretary not less than forty-eight hours before the time appointed for holding the meeting at which the person named in such instrument proposes to vote.

58. No objection shall be made to the validity of any vote except at the meeting or poll at which such vote shall be tendered and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for all purposes of such meeting or poll whatsoever.

59. The Chairman of any meeting shall be the sole and absolute judge of the validity of every vote tendered at such meeting or poll and may allow or disallow the votes tendered according as he shall be of opinion that they are or are not valid.

Accounts

60. The Council shall cause proper books of account to be kept with respect to :—

(*a*) all sums of money received and expended by the Association and the matters in respect of which the receipts and expenditure take place ;

(*b*) all sales and purchases of goods by the Association ;

(*c*) the assets and liabilities of the Association.

61. The books of account shall be kept at such place as the Council may from time to time appoint, and subject to any reasonable restrictions as to the time and manner of inspecting them that may be imposed by the Association in General Meeting, the books of account shall be open to the inspection of the Members at all times during the usual business hours.

62. The Council shall from time to time, in accordance with Section 123 of the Act, cause to be prepared and to be laid before the Association in General Meeting such income and expenditure accounts, balance sheets and reports as are referred to in that section.

63. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Association in General Meeting together with a copy of the auditor's report shall not less than seven days before the date of the meeting be sent to all persons entitled to receive notices of General Meetings of the Association.

Audit

64. Auditors shall be appointed and their duties regulated in accordance with Sections 132, 133 and 134 of the Companies Act, 1929.

Notices

65. A notice may be given by the Association to any Member either personally to the representative of such Member or by sending it by post to such representative to his address in the United Kingdom. Every representative of a Member shall furnish to the Association an address in the United Kingdom at which notices may be served.

66. Where a notice is sent by post, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice, and, unless the contrary is proved, to have been effected on the day succeeding that on which it was posted.

SCHEDULE A. (*Vide* Article 4 (*a*))

Universities of Great Britain and Ireland

England and Wales: Birmingham, Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Oxford, Reading, Sheffield, Wales.

Scotland: Aberdeen, Edinburgh, Glasgow, St. Andrews.

Ireland: The Queen's University of Belfast; University of Dublin, Trinity College; the National University of Ireland.

Universities Overseas

Canada: Acadia, Alberta, Bishop's College, British Columbia, Dalhousie, King's College, Laval, McGill, McMaster, Manitoba, Montreal, Mount Allison, New Brunswick, Ottawa, Queen's, St. Francis Xavier, Saskatchewan, Toronto, Western Ontario.

Australia: Adelaide, Melbourne, Queensland, Sydney, Tasmania, Western Australia.

New Zealand: The University of New Zealand.

South Africa: Cape Town, Pretoria, South Africa, Stellenbosch, Witwatersrand.

Malta: The University of Malta.

India: Agra, Aligarh Muslim University, Allahabad, Andhra, Annamalai, Benares Hindu University, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Osmania University, Panjab, Patna.

Hong-Kong: The University of Hong-Kong.

Burma: The University of Rangoon.

MEMBERS OF THE UNIVERSITIES BUREAU OF THE BRITISH EMPIRE, TOGETHER WITH THEIR REPRESENTATIVES (as at 1st March 1939)

(i) Ordinary Members

ENGLAND AND WALES

University	*Representative*
Birmingham	R. E. Priestley, M.C., M.A., D.Sc.
Bristol	Thomas Loveday, M.A., LL.D.
Cambridge	E. A. Benians, M.A.
Durham	J. F. Duff, M.A., M.Ed.
Leeds	B. Mouat Jones, D.S.O., M.A.
Liverpool	A. D. McNair, C.B.E., M.A., LL.D.
London	H. L. Eason, C.B., C.M.G., M.D., M.S., F.R.C.S.
Manchester	J. S. B. Stopford, M.D., Sc.D., D.Sc., F.R.S.
Oxford	A. D. Lindsay, C.B.E., M.A., LL.D.
Reading	Sir Franklin Sibly, D.Sc., LL.D.
Sheffield	J. I. O. Masson, M.B.E., D.Sc., F.I.C.
Wales	Ifor L. Evans, M.A.

SCOTLAND

Aberdeen	W. Hamilton Fyfe, M.A., LL.D., F.R.S.C.
Edinburgh	Sir Thomas H. Holland, K.C.S.I., K.C.I.E., LL.D., D.Sc., F.R.S.
Glasgow	Sir Hector J. W. Hetherington, M.A., LL.D.
St. Andrews	Sir James C. Irvine, C.B.E., D.C.L., LL.D., D.Sc., Sc.D., Ph.D., F.R.S.

IRELAND

Queen's, Belfast	
Dublin, Trinity College	W. E. Thrift, M.A., Sc.D.
National University of Ireland	Denis J. Coffey, M.A., LL.D., M.B., B.Ch., B.A.O.

CANADA

Alberta	C. M. MacInnes, M.A.
Bishop's College (Univ. of)	Professor F. A. P. Aveling, M.C., D.Lit., Ph.D., D.Sc.
British Columbia	R. L. Vollum, M.A., D.Phil.
Dalhousie	J. Cameron, O.B.E., D.Sc., M.D., M.R.C.S., F.R.S.E., F.R.S.C.
McGill	T. F. Cotton, B.A., M.D., F.R.C.P.
Mt. Allison	R. Ruggles Gates, M.A., LL.D., D.Sc., Ph.D., F.R.S.
Queen's, Ontario	Sir Edward R. Peacock, G.C.V.O., D.C.L.
Saskatchewan	A. E. Cameron, M.A., D.Sc.

College	*Representative*
Toronto	C. S. Wright, C.B., O.B.E., M.C., M.A.
Western Ontario	Lewis R. Yealland, M.D., F.R.C.P.
	AUSTRALIA
Adelaide	Professor H. Darnley Naylor, M.A.
Melbourne	Professor A. G. B. Fisher, Ph.D.
Queensland	R. L. Hall, M.A.
Sydney	Professor T G. B. Osborn, M.A., D.Sc.
	NEW ZEALAND
New Zealand	A. J. Harrop, M.A., Ph.D., Litt D.
	SOUTH AFRICA
Cape Town	Rt. Hon. Lord Lugard, G.C.M.G., C.B., D.S.O., D.C.L., LL.D.
South Africa	
Witwatersrand	William Cullen, LL.D.
	INDIA
Annamalai	Professor Sir Sarvapalli Radhakrishnan, M.A., D.Litt.
Calcutta	Sir Ewart Greaves.
Madras	Sir Ramaswami Mudaliar, B.A., B.L.
Osmania	B. C. McEwen, M.C., B.Sc.
Panjab	Rt. Hon. Sir Shadi Lal, P.C., M.A., B.C.L.
Patna	H. Lambert, M.A., Ph.D.
	OTHER PARTS OF THE EMPIRE
Malta	Adrian Dingli, O.B.E., M.A., LL.D., Jur.D.
Hong-Kong	Sir William Peel, K.C.M.G., K.B.E., M.A., LL.D.
Rangoon	Sir Benjamin H. Heald, V.D., M.A., LL.D.

(ii) Associate Members

College	*Representative*
University College of the South West of England, Exeter	John Murray, M.A., LL.D.
University College of Nottingham	H. A. S. Wortley, M.A.
University College, Southampton	Kenneth H. Vickers, M.A.
University of Otago, Dunedin, N.Z.	W. P. Morrell, M.A., D.Phil.
Canterbury University College, Christchurch, N.Z.	A. J. Harrop, M.A., Ph.D., Litt.D.
Auckland University College, N.Z.	A. J. Harrop, M.A., Ph.D., Litt.D.
Victoria University College, Wellington, N.Z.	A. J. Harrop, M.A., Ph.D., Litt.D.
Hebrew University of Jerusalem	Professor S. Brodetsky, M.A., Ph.D.

(iii) Additional Members

College	*Representative*
Municipal College of Technology, Manchester	J. E. Myers, O.B.E., D.Sc., A.I.C.
Royal Technical College, Glasgow	Sir Arthur J. C. Huddleston, C.M.G., O.B.E., M.A.
Raffles College, Singapore	
King Edward VII College of Medicine, Singapore	F. J. Morten, B.A.

THE EXECUTIVE COUNCIL

(Appointed under Articles 12 and 13 of the Articles of Association at the First General Meeting held in London on the 24th September 1932)

REPRESENTATIVES NOMINATED BY MEMBER UNIVERSITIES

UNIVERSITIES OF GT. BRITAIN AND IRELAND

A. D. LINDSAY, C.B.E., M.A., LL.D. (Oxford)	Oxford
E. A. BENIANS, M.A. (Cambridge)	Cambridge
H. L. EASON, C.B., C.M.G., M.D., M.S., F.R.C.S. (London)	London
J. F. DUFF, M.A., M.Ed. (Durham)	Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Reading, Sheffield and Wales
IFOR L. EVANS, M.A. (Wales)	
J. S. B. STOPFORD, M.D., Sc.D., D.Sc., F.R.S. (Manchester)	
Sir HECTOR J. W. HETHERINGTON, M.A., LL.D. (Glasgow)	Aberdeen, Edinburgh, Glasgow, St. Andrews and Belfast
Sir THOMAS H. HOLLAND, K.C.S.I., K.C.I.E., LL.D., D.Sc., F.R.S. (Edinburgh)	
W. E. THRIFT, M.A., Sc.D. (Dublin, Trinity College)	Dublin and National

UNIVERSITIES OF CANADA

A. E. CAMERON, M.A., D.Sc. (Saskatchewan)

T. F. COTTON, B.A., M.D., F.R.C.P. (McGill)

C. S. WRIGHT, C.B., O.B.E., M.C., M.A. (Toronto)

UNIVERSITIES OF AUSTRALIA

Professor A. G. B. FISHER, Ph.D. (Melbourne)

Professor T. G. B. OSBORN, M.A., D.Sc. (Sydney)

UNIVERSITY OF NEW ZEALAND

A. J. HARROP, M.A., Ph.D., Litt.D. (New Zealand)

UNIVERSITIES OF SOUTH AFRICA

WILLIAM CULLEN, LL.D. (Witwatersrand)

.....

UNIVERSITIES OF INDIA

B. C. McEwen, M.C., B.Sc. (Osmania)

Sir Ramaswami Mudaliar, B.A., B.L. (Madras)

Professor Sir Sarvapalli Radhakrishnan, M.A., D. Litt. (Annamalai)

UNIVERSITIES OF OTHER PARTS OF THE EMPIRE

HONG-KONG, MALTA, RANGOON

A. Dingli, O.B.E., M.A., LL.D., Jur.D. (Malta)

Chairman : J. S. B. Stopford, M.D., Sc.D., D.Sc., F.R.S.

Hon. Treasurer : William Cullen, LL.D.

Secretary : W. B. Brander, C.I.E., C.B.E., M.A.

UNIVERSITIES BUREAU OF THE BRITISH EMPIRE

REPORT

FOR THE YEAR 1ST AUGUST 1937 TO 31ST JULY 1938

1. MEMBERSHIP OF THE BUREAU

A list of the Ordinary, Associate and Additional Members of the Universities Bureau of the British Empire, with the names of their representatives, is given at the beginning of this Report.* The number of Ordinary Members remains the same. The Associate Members now number eight as compared with six last year. The number of Additional Members remains the same.

2. THE COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS

The Committee of Vice-Chancellors and Principals, under the Chairmanship of Dr. T. Loveday, continued to employ the Bureau as its Secretariat. Professor J. F. Duff succeeded Sir Robert A. Bolam as Vice-Chancellor of the University of Durham. Principal Ifor L. Evans succeeded Principal J. F. Rees as Vice-Chancellor of the University of Wales. Dr. H. R. Dean succeeded Mr. G. H. A. Wilson as Vice-Chancellor of the University of Cambridge. Dr. J. Murray represented the three University Colleges.

The quarterly meetings were held on 25th September 1937, 18th December 1937, 5th March 1938 and 9th July 1938.

Amongst subjects discussed during the year by the Committee were: Revised Regulations Relating to Examinations for the Foreign Office and Diplomatic Service; Equivalence of British and French Degrees in connexion with the Establishment of Post-graduate Scholarships by the British Institute in Paris; Admission of Students from Iraq to Universities in this Country; Post-graduate Scholarships offered by the British Council; Purchase of Books by Students; Home Office Scheme for Provision of Post-graduate Scholarships in Forensic Science; Inclusion of Public Administration, Social Administration and Social and Political Theory in the Examination for Inspectors of Taxes and Third-Class Officers of the Ministry of Labour; Secret Ballot in University Parliamentary Elections; Music and Drama Bill; British Council Charter; Proposed Standing Committee on Higher Education; Recognition of Degrees of the University of Moral and Political Sciences, Bangkok; Remission of Fees to Austrian Students by Medical Schools in Great Britain; Holidays with Pay; School Examinations and the Academic Year.

In addition some of the subjects referred to in last year's Report were further considered.

* *See* p. xxv.

Dr. T. Loveday, Canon E. F. Braley and Sir James Baillie were re-nominated on the Central Advisory Committee for the Certification of Teachers. Sir Franklin Sibly was nominated in place of Professor S. H. Watkins, and Professor G. S. Veitch resigned his membership of the Committee owing to ill-health.

Sir Hector Hetherington, Dr. A. D. McNair and Dr. J. S. B. Stopford were re-nominated as representatives of the Committee on the Boards of Architectural Education of the Architects' Registration Council and the Royal Institute of British Architects for the year 1938–39.

Mr. H. L. Eason was reappointed and the Secretary of the Committee appointed to serve on the Executive Committee of the British Institute in Paris.

Sir Franklin Sibly was appointed a representative of the Committee on the Students' Committee of the British Council.

The Secretary represented the Committee as an observer at the Anglo-American Historical Conference on 1st July.

Sir Charles Grant Robertson was appointed as the representative of the Committee on the Standing Committee on Higher Education constituted by the International Institute of Intellectual Co-operation.

The Committee approved the grant of eight Free Passages to Australia and New Zealand.

At its meeting on 9th July 1938, the Committee elected Sir Franklin Sibly as its Chairman for the ensuing year.

3. The Executive Council

On 25th September 1937, the following members of the Executive Council were appointed at the Annual General Meeting of representatives of the Members of the Association :—

Universities of Great Britain and Ireland

A. D. Lindsay	Oxford.
Will Spens	Cambridge.
H. L. Eason	London.
T. Loveday, Ifor L. Evans, Sir Franklin Sibly	Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Reading, Sheffield and Wales.
W. H. Fyfe, F. W. Ogilvie	Aberdeen, Edinburgh, Glasgow, St. Andrews and Belfast.
D. J. Coffey	Dublin and the National University of Ireland.

Universities of Canada

C. S. Wright (Toronto).
T. F. Cotton (McGill).
A. E. Cameron (Saskatchewan).

Universities of Australia

J. I. O. Masson (Melbourne).
J. T. Wilson (Sydney).

University of New Zealand

A. J. Harrop.

Universities of South Africa

W. A. Horrocks (South Africa).
William Cullen (Witwatersrand).

Universities of India

B. C. McEwen (Osmania).
Sir Ramaswami Mudaliar (Madras).
Sir Sarvapalli Radhakrishnan (Annamalai).

Universities of other parts of the Empire : Hong-Kong, Malta and Rangoon

Sir Benjamin H. Heald (Rangoon).

The Executive Council met on 25th September to consider the Annual Report and the Accounts for the Financial Year 1936–37. On 25th September the Executive Council, appointed at the Annual General Meeting, met and re-elected Mr. Will Spens as Chairman and Sir Franklin Sibly as Honorary Treasurer for the year 1937–38. The Executive Council met for ordinary business on 20th November 1937, 19th February 1938 and 11th June 1938.

Mr. E. A. Benians, Sir Franklin Sibly and the Secretary were appointed to represent the Council on the Selection Committee set up in connexion with the scholarships offered by the British Council to graduates of European Universities.

Mr. H. L. Eason, Dr. A. D. McNair and the Secretary were appointed to serve on the Selection Board set up by the Home Office to consider applications received for post-graduate scholarships in Forensic Science.

Amongst other business considered by the Executive Council during the year was the proposed conference between heads of Universities in the British Empire and of some of the heads of Universities in the United States of America in 1941.

Sir Franklin Sibly, who will be resigning the appointment of Honorary Treasurer at the next Annual General Meeting of the Universities Bureau, has had extended to him (as Chairman of the Committee of Vice-Chancellors and Principals) a standing invitation to be present at meetings of the Executive Council.

4. The Staff

On the occasion of the retirement of Miss E. S. Durrad, the Assistant Secretary and Assistant Editor of the Yearbook, which took place at the end of June 1938, the Executive Council placed on record their high appreciation of the loyal services which she had rendered in the course of her nine years' connexion with the Bureau, as well as of her industry and her zeal which have contributed in no small measure to making the Yearbook an accurate and indispensable compilation of all important information relating to Universities and other institutions in the British Empire.

The Committee of Vice-Chancellors and Principals at the meeting held on 9th July 1938, also placed on record an expression of their appreciation of the services rendered by Miss Durrad during the nine years of her connexion with the Bureau.

Mrs. Bird was appointed Assistant Secretary and Assistant Editor in place of Miss Durrad with effect from 1st July 1938, and necessary rearrangements were made in the office duties of the other members of the staff.

5. The Secretary's Tour of the Canadian Universities

During the early part of the financial year the Executive Council considered the advisability of sending the Secretary on a tour through Canada. At the meeting held in November 1937, the Executive Council reached the decision that this visit should be made, with the result that the Secretary left England on 12th March 1938. He visited all the Universities in Canada as well as a number of other institutions and returned, via the United States of America, to England on 23rd May. The Secretary was given full opportunities for meeting members of the staffs of the various Universities, and of discussing with them ways and means whereby the Universities Bureau could be of service to Universities in Canada. On receipt of the report of his visit the Executive Council placed on record their appreciation of the kind welcome and hospitality extended to the Secretary and of the interest displayed by the Universities of Canada in the work of the Bureau.

While in the United States the Secretary discussed with the Presidents of Harvard and Yale Universities, the President of the Carnegie Corporation of New York and the Director of the Institute of International Education the possibility of the visit to England, in 1941, of some of the heads of Universities in the United States with a view to their meeting the heads of Universities in the British Empire at the Congress to be held in Manchester. The Executive Council hope, if possible, to arrange for an informal conference, either before or after the Congress proceedings.

The Executive Council made a grant of £350 to cover the Secretary's expenses, part of this sum being met from the balance of the Carnegie Corporation Grant fund mentioned in Section 3 of the Note on the Financial Statements in the Report of the Executive Council for the year 1936–37.

6. General Administration

The Bureau continued to deal with post-graduate scholarships and other awards.

(1) *Imperial Relations Trust Grant.* In last year's report a reference was made to the fact that a Committee consisting of Dr. W. Cullen, the late Sir Edwin Deller and Dr. A. J. Harrop had been appointed to enquire into the possibility of effecting exchanges of members of University teaching staffs. On the death of Sir Edwin Deller, Sir Walter Moberly was appointed a member of the Committee. Before any meeting of the Committtee was held it was announced that the Imperial Relations Trust had made a grant of £2000 per annum for

three years to the Universities Bureau for the purpose of arranging visits by persons concerned with University administration from the Dominions to this country and from this country to the Dominions with a view to assisting to secure contact between the Dominions Universities and the Universities in this country. This Committee was thereupon dissolved and the Executive Council appointed a Committee consisting of the Chairman, the Honorary Treasurer, Dr. W. Cullen and the Secretary to consider proposals for the distribution of the grant. The Dowager Marchioness of Reading also served on the Committee as the representative of the Imperial Relations Trust and Dr. T. F. Cotton took the place of Dr. Cullen, owing to the latter's absence in Canada at the time of the meeting of the Committee. It was agreed that for the year 1938–39 two grants should be made to representatives of Universities in Great Britain and Ireland, one for a visit to India and one to South Africa, and that in addition three grants should be offered to Universities in Canada, Universities in Australia and the University of New Zealand.

(2) *French Bourses.* Three Bourses, to the value of 7200 francs per annum with remission of fees, were offered by the French Government to graduates of British Universities for 1938–39. A Selection Committee considered twelve applications and recommended that the awards should be made to: W. Barrett, B.A., Oxford, for research in mathematics, and E. C. Wray, B.Sc., Reading, for botanical research. For the third bourse the Committee place A. A. Haywood, B.A., Sheffield, and E. D. Scarisbrick, B.A., Liverpool, equal, but after consultation with the French authorities it was agreed that the bourse should be awarded to Mr. Haywood, who wishes to study for the Licence-ès-lettres.

For the scholarship of £70 per annum, offered annually by the University of Oxford, Mlle. J. C. Fawtier, who will study English, was selected. The scholarship of £70 per annum offered by the University of London has not yet been awarded, owing to the fact that the candidate selected withdrew her application. The scholarship of £80 per annum, offered jointly by the Universities of Birmingham, Leeds, Manchester and Sheffield, was awarded to Mlle. R. M. Nillus, who will study Law at the University of Manchester. The scholarship of £80 offered by Colleges of the University of Cambridge, was awarded to Monsieur L. D. A. H. Fauvel for a further year.

(3) *Thomas Carlyle Stipendium.* The Stipendium was not awarded during the year under report owing to the fact that all the candidates withdrew their applications subsequent to the decision reached by the Selection Committee. The Stipendium was re-advertised.

(4) *Cecil Peace Prize.* This prize of the value of £100 was divided between Miss U. Wassermann of the University of London, and Mr. D. Hindley-Smith of the University of Cambridge, for essays on "The Causes of the Failure of the Disarmament Conference."

During the year the Bureau dealt with the following appointments: Assistant Director and Professor of English Literature and History at the British Institute of Florence; Professor of Economics at the University of Adelaide; Lecturer in Education at Auckland Univer-

sity College, N.Z.; Lecturer in Psychology at Victoria University College, Wellington, N.Z.; Junior Lecturer and Tutor in English at the University of Hong-Kong; Professor of English Language and Literature at Raffles College, Singapore; Professor of Botany, Professor of Anatomy, Senior Lecturer in Anatomy, Senior Lecturer in General and Inorganic Chemistry, Lecturer in Organic Chemistry, Lecturer in History and Principal of University Women's College at the University of Melbourne; Lecturer in Geology and Lecturer in History at University College, Rangoon; Lecturer in English at the Training College for Teachers, Rangoon.

The Bureau also assisted in recruiting candidates for vacant appointments at other Universities and is, in addition, dealing with nine new appointments regarding which no final decision has been reached. They will be included in next year's Report.

As in previous years the Executive Council desire to express their best thanks to the members of Selection Committees, who have readily given their services to the Bureau.

During the year the Executive Council considered the procedure followed in the matter of dealing with appointments in Universities overseas. As a result a circular letter was issued indicating that the procedure adopted by the Bureau was elastic and could be made subject to such modifications as might be desired by the appointing authorities. The Executive Council also drew attention to the fact that the Universities Bureau was in the best position to obtain information regarding possible candidates and to secure the services of experts in assessing the relative qualifications of applicants.

The Bureau continued to assist in arrangements for the exchange of Belgian and British Professors.

The Bureau was approached by Dr. Wallace, the Principal of Queen's University, Kingston, Ontario, who is Chairman of a Committee of the National Conference of Canadian Universities, regarding the possibility of the visit of a physicist to Canada for six months during 1938–39. The Bureau made enquiries which resulted in an invitation being extended to Professor C. D. Ellis, of King's College, University of London, who will spend several months in the winter of 1938–39 visiting Canadian Universities.

In the report for the year 1936–37 it was noted that the Executive Council had under consideration a proposal to set up a panel of advisers who would be willing to assist the Bureau in answering inquiries from students and others regarding the facilities available for study at Universities in Great Britain and Ireland. During the year a Committee consisting of the Chairman, the Honorary Treasurer, Dr. W. Cullen, Dr. A. J. Harrop and the Secretary, was appointed to consider this question. The Committee agreed that having regard to the information available in the Bureau records it was unnecessary to set up such a panel. As a result of the Committee's recommendations a circular letter was addressed to Universities overseas, calling attention to the fact that the Universities Bureau was prepared to supply information to inquirers without charge and enclosing a statement of some of the inquiries dealt with by the Bureau during the last few years.

Information regarding students from overseas continues to be collected. The details supplied are collated, and a summary thereof is included annually in Appendix VII of the Universities Yearbook. This information has frequently been utilised in answering statistical inquiries addressed to the Bureau by foreign Governments and others.

The scheme whereby vacant appointments at Universities in Great Britain and Ireland are communicated to members of the staffs of Universities outside the British Isles is gradually becoming better known and more applicants are taking advantage of it. One result of the Secretary's visit to Canada is that a number of applications have already been received from that Dominion.

Thirteen certificates of equivalence for the Baccalauréat and four certificates for admission to the University of Geneva were issued by the Bureau.

During the year the Secretary represented the Bureau at the installation of the Chancellor of the University of Edinburgh, and attended the opening of the new Surgical Research Department of that University. While in Scotland the Secretary took the opportunity of visiting the Royal Technical College, Glasgow, members of the staff of which were much interested in the work of the Bureau. The Secretary also visited University College, Exeter, and attended meetings in Paris under the auspices of the British Institute between representatives of British Universities and representatives of the University of Paris to discuss the question of equivalence of British and French degrees.

The Secretary was appointed a member of the British Council and of the Students' Committee of that Council. He attended meetings of Selection Committees set up by the British Council in connexion with appointments at the Universities of Salonica and Sofia.

The Executive Council were asked to suggest a lecturer to deal with the subject of the Universities of the Empire at the Cambridge Summer Meeting. The Secretary was invited to undertake this duty and delivered a lecture on the inter-relationship of the Universities of the Empire.

The Secretary attended meetings of the Universities' China Committee in London and was appointed a member of two sub-committees of that Committee.

The Secretary attended a meeting of the Astor Scholarship Fund Sub-Committee on 29th September 1937, as the representative of the Principal of the University College of the South-West of England.

7. Universities Yearbook

The Universities Yearbook for 1938 was published in March. Publishers' charges were about £90 in excess of those of the 1937 edition, an increase partly due to the insertion of new matter and the higher costs of production. The receipts from advertisements were £88 as compared with £76 in the previous year.

During the year the Executive Council decided that the concession of a reduction in the price from 15s. to 10s. to member University

Institutions and to members of their staffs, should be extended to hostels, students' unions and similar organisations connected with members of the Bureau.

8. Conferences

Meetings of the Australian Vice-Chancellors' Committee were held in February and August 1937. The following were amongst the topics discussed at the February meeting: Canberra University College; Exchanges with Chinese and Japanese Universities; Exchanges of University Teachers; Commonwealth Public Service Appointments. At the August meeting the following subjects, in addition to some which had already been dealt with at the February meeting, were discussed: Limitation of Numbers of Medical Students; Synchronisation of Vacations; Australian Broadcasting Commission; Participation of the Universities in Youth Unemployment Relief; Reciprocity of Matriculation Qualifications.

The next meeting of the National Conference of Canadian Universities will be held in May 1939.

No report has been received of meetings of the Vice-Chancellors' Committee of the South African Universities.

The Inter-University Board, India, held its thirteenth annual general meeting at Allahabad on the 13th and 14th of December 1937. Seventeen Universities and the Public Service Commission were represented at the Conference. In addition to formal business the following subjects were discussed: Formation of a National Committee for India, to take part in the International Historical Congress; Recently Revised Regulations for Recruitment to the Indian Civil Service Examinations; Recognition by all Indian Universities of the Medical Degrees of Universities included in Schedule A of the Indian Medical Council Act of 1933; Agreement by all Indian Universities regarding the Syllabus to be prescribed for the Pre-Medical Course in Chemistry, Physics and Biology; Invitation to Teachers from other Universities to take part in the Periodical Inspection of Medical Colleges and Hospitals; Mutual Recognition of the Corresponding Examinations of the different Universities in India for purposes of Eligibility for Admission; Increase of Grants to Universities for Research in Applied Sciences; Closer Co-ordination between the Indian Military Academy, Dehra Dun, and Universities in which Training Corps have been organised; Arrangements for Special Training for Students entering for the All-India competitive Examinations; Employment Bureaux; Jurisprudence and Constitutional Law as Subjects for the B.A. Degree; Definition of a bona fide Student for purposes of Inter-University Tournaments; Inclusion of Aeronautical Instruction in the Curricula of Indian Universities; Recognition of Lectures attended and Terms kept at different Universities; Recognition of the French Baccalauréat Degree by Indian Universities; Measure of Uniformity in respect of the Conditions under which Candidates can appear at Entrance Examinations; Quinquennial Athletic Meeting on an All-India Basis; Teaching of Law in the Universities in the light of the Recommendations made by the Sapru Committee Report; Stage of Admission to the University—Restriction

of Admission to such Students only as are likely to profit by it; Special Course of Study for Women Students.

Dr. C. R. Reddy, M.A., M.L.C., Vice-Chancellor of Andhra University, was Chairman of the Inter-University Board during the year 1937–38. Diwan Bahadur S. E. Runganadhan, M.A., Vice-Chancellor of the University of Madras, was elected Chairman for the year 1938–39. Professor N. K. Sidhanta, M A., of the University of Lucknow, continues to act as Secretary.

WILL SPENS
Chairman

T. FRANKLIN SIBLY
Hon. Treasurer

W. B. BRANDER
Secretary

24th September 1938

NOTE ON THE FINANCIAL STATEMENTS

Introductory

The form of presentation of the financial statements continues to follow the lines adopted from the year 1933–34 onwards. The Income Account shows the amount received from the publishers for sales of the Universities Yearbook, 1937.

In the Comparative Statements for the years 1934–35 to 1937–38 all entries relating to non-recurring items have been omitted from the Income and Expenditure Accounts. Amongst these items for the year 1937–38 is the payment made to the Secretary on account of his visit to Canada.

1. Income and Expenditure Account

Expenditure exceeded Income by £14 : 15 : 6. This has been deducted from the amount brought forward from last year (£491 : 19 : 11), leaving a balance of £477 : 4 : 5.

Income

The total income of the year was £4433 as compared with £4390 in 1936–37 and £4198 in 1935–36. Income during the year 1936–37 was, however, swollen by the receipt of £228 in connexion with the preparation of the first edition of the Handbook, and this year by the transfer from the Balance Sheet of the Carnegie Corporation Grant reserve of £222 : 6 : 5, an amount which was utilised to meet part of

the cost of the Secretary's visit to Canada. Subscriptions show an increase of £35 over last year. Sales of the Yearbook by the publishers fell by about £23 while sales by the Bureau increased by £17. As no change has been made in the investments of the Bureau the interest received remains almost identical with that of 1936–37.

Expenditure

The total expenditure for the year was £4448 as compared with £4341 in 1936–37 and £4171 in 1935–36. Apart from small increases in Printing and Stationery and Postages and Telegrams caused by the extended use made of the Bureau services, the two reasons for this increase are the payment in connexion with the Secretary's visit to Canada (£350) and the extra cost of publishing the Universities Yearbook.

2. Balance Sheet

The Balance Sheet differs so slightly from that of last year that little comment is necessary. The balance of the Carnegie Corporation Grant has been transferred to the Bureau funds, for reasons explained elsewhere, and is shown in the Income and Expenditure Account.

The item Sundry Debtors includes £185 : 12 : 5 from Universities overseas for charges incurred by the Bureau in making appointments and £43 : 9 : 1 Income Tax due on investments.

3. Imperial Relations Trust Grant

Of the grant for the year 1938–39 £1000 has already been received and placed on deposit.

INCOME AND EXPENDITURE ACCOUNT FOR

EXPENDITURE

	£	s.	d.	£	s.	d.
To Administration :—						
Salaries	2195	6	5			
Superannuation	185	0	0			
National Insurances	11	2	5			
Printing and Stationery	113	13	4			
Postages and Telegrams ..	106	10	11			
Telephone	23	10	4			
Books and Newspapers	22	4	7			
Audit and Accountancy Fees	15	15	0			
Miscellaneous	198	0	5			
				2871	3	5
To Maintenance :—						
Rent	150	0	0			
Rates	81	4	8			
Heating and Lighting	58	19	10			
Insurances	6	4	10			
Household Expenses	51	10	7			
Furniture and Fittings	21	9	10			
Repairs and Decorations	24	7	1			
				393	16	10
To other Charges :—						
Allowance to late Clerk .. .	25	0	0			
Yearbook, 1937	717	4	2			
Lease Redemption Premium	90	8	4			
Expenses of Secretary's Canadian Tour	350	0	0			
				1182	12	6
				£4447	12	9
To Balance, brought down				£14	15	6
,, carried down				477	4	5
				£491	19	11

THE YEAR 1st AUGUST 1937 to 31st JULY 1938

INCOME

	£ s. d.	£ s. d.
By Subscriptions of Universities and University Colleges :—		
Great Britain and Ireland	2405 0 0	
Overseas	1090 0 0	
		3495 0 0
,, Sales of Yearbook :—		
Publishers		199 18 0
Sum received by the Bureau		63 16 4
,, Advertisements in Yearbook		88 8 11
,, Sales of Congress Reports, etc.		35 16 3
,, Cecil Peace Prize Contribution		10 0 0
,, Interest on Investments and deposit at Bank .		317 11 4
,, Carnegie Corporation Grant Balance, transferred ..		222 6 5
,, Balance, being excess of Expenditure over Income, carried down		14 15 6
		£4447 12 9

By Balance from last year	£491 19 11
,, Balance brought down	£477 4 5

IMPERIAL RELATIONS

	£	s.	d.
Transferred to Deposit Account	1000	0	0

BALANCE SHEET,

	£	s	d.	£	s.	d.
Capital Account as per last Balance Sheet				10,302	17	1
Income and Expenditure Account (balance)				477	4	5
Subscriptions received in advance for 1938–39				405	0	0
Imperial Relations Trust—Grant not yet expended ..				1,000	0	0
				£12,185	0	6

To: The Members,

The Universities Bureau of the British Empire.

We have audited the above Balance Sheet and have obtained all such Balance Sheet is properly drawn up so as to exhibit a true and of our information and the explanations given to us and as shown by

Spencer House, South Place, E.C.2,
25th August 1938.

TRUST GRANT ACCOUNT

	£	s.	d.
By sum received	1000	0	0

JULY 31st, 1938

	£	s.	d.	£	s.	d.
Leasehold Building, 88A Gower Street, W.C., at cost as per last Balance Sheet ..				2,467	17	1
Note :—A Leasehold Redemption Policy of surrender value £756 : 19s. on 31st July 1938, has been taken out against this asset.						
Sundry Debtors				232	18	10
Investments at cost :—						
£4000 3½% War Loan	4,100	11	11			
£1100 5% Australia Stock, 1945/75 ..	1,003	18	0			
£869 : 9 : 4 3½% Australia Stock, 1954/59	900	0	0			
£700 Agricultural Mortgage Corporation Ltd. 5% Debenture Stock	837	1	10			
£1390 4% Southern Railway Debenture Stock, 1962/67	1,537	13	9			
				*8,379	5	6
Cash at Bank on Current Account ..	101	11	3			
Cash in hand	3	8	10			
				105	0	1
Deposit Account—Imperial Relations Trust	..		..	1000	0	0
				£12,185	0	6

* The market value of the Investments on 31st July 1938 was £8393.

the information and explanations we have required. In our opinion correct view of the state of the Bureau's affairs according to the best the books of the Bureau.

(Signed) KNOX, CROPPER & CO.
Chartered Accountants.

FOUR YEARS' INCOME AND

EXPENDITURE	*1934–35			*1935–36			1936–37			1937–38		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Administration :—												
Salaries	1897	7	4	2050	7	11	2214	18	4	2195	6	5
Superannuation ..	50	0	0	38	8	9	282	16	8	185	0	0
National Insurances ..	12	2	0	14	0	3	15	0	11	11	2	5
Printing and Stationery	80	18	11	128	15	2	96	2	9	113	13	4
Postages and Telegrams	67	14	9	58	13	2	88	6	5	106	10	11
Telephone	20	3	7	20	16	6	26	12	4	23	10	4
Books and Newspapers	33	13	0	22	7	7	32	6	3	22	4	7
Audit and Accountancy Fees	15	15	0	15	15	0	15	15	0	15	15	0
Miscellaneous	122	9	8	119	16	11	194	16	7	198	0	5
	2300	4	3	2469	1	3	2967	5	3	2871	3	5
Maintenance :—												
Rent	150	0	0	150	0	0	150	0	0	150	0	0
Rates	71	0	7	76	17	10	79	2	6	81	4	8
Heating and Lighting	46	11	5	51	4	5	56	1	5	58	19	10
Insurances	5	12	8	5	18	1	6	3	8	6	4	10
Household Expenses ..	50	6	5	54	15	5	49	17	1	51	10	7
Furniture and Fittings	18	8	0	59	0	4	16	12	0	21	9	10
Repairs and Decorations	25	1	2	21	17	9	41	18	1	24	7	1
	367	0	3	419	13	10	399	14	9	393	16	10
Other Charges :—												
Allowance to late Clerk	25	0	0	25	0	0	25	0	0	25	0	0
Yearbook	619	3	9	611	7	3	639	16	1	717	4	2
Lease Redemption Premium	90	8	4	90	8	4	90	8	4	90	8	4
	734	12	1	726	15	7	755	4	5	832	12	6
Total	3401	16	7	3615	10	0	4122	4	5	£4007	12	9

* In this statement the charges incurred during 1934–36 on account of the 1936 Congress have not been included.

BALANCE

LIABILITIES	1934–35			1935–36			1936–37			1937–38		
	£	s.	d.	£	s.	d.	£	s.	d	£	s.	d.
Capital A/c	10,199	10	10	10,302	17	1	10,302	17	1	10,302	17	1
Income and Expenditure A/c	415	19	6	443	3	7	491	19	11	477	3	5
Subscriptions carried forward	275	0	0	225	0	0	140	0	0	405	0	0
Sundry Creditors ..	107	11	4	31	15	2	—			—		
	10,998	1	8	11,002	15	10	10,934	17	0	£11,185	0	6

COMPARATIVE STATEMENTS

EXPENDITURE ACCOUNTS

INCOME	1934–35			1935–36			1936–37			1937–38		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Subscriptions of Member Institutions :—												
Great Britain and Ireland	2370	0	0	2370	0	0	2405	0	0	2405	0	0
Overseas	1055	12	2	1080	0	0	1055	0	0	1090	0	0
Sales of Yearbook :—												
Publishers	*190	10	6	*222	15	9	*199	18	0	*218	10	3
Bureau	49	11	4	50	14	10	46	18	2	63	16	4
Advertisements in Yearbook	74	12	4	78	3	0	76	12	4	88	8	11
Sales of Congress Reports, etc.	5	5	1	9	7	8	257	15	7	35	16	3
Cecil Peace Prize Contribution	10	0	0	10	0	0	10	0	0	10	0	0
Interest on Investments	412	4	8	378	7	8	316	0	8	317	11	4
Total	4167	16	1	4199	8	11	4367	4	9	£4229	3	1

* For reasons explained in the Note on the Financial Statements in the 1933–34 Report, these amounts representing actual and probable Yearbook Receipts have not been included in the Income and Expenditure Accounts for 1934–35, 1935–36, 1936–37, and 1937–38 respectively, but are shown here for purposes of comparison.

SHEETS

ASSETS	1934–35			1935–36			1936–37			1937–38		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Investments	7731	13	9	6841	11	9	8379	5	6	8379	5	6
Sundry Debtors	411	13	1	603	9	8	216	10	10	232	18	10
Cash at Bank	246	9	11	898	17	10	88	9	1	101	11	3
Petty Cash	4	7	0	5	12	2	5	0	11	3	7	10
Building at 88a Gower Street	†2467	17	1	†2467	17	1	†2467	17	1	†2467	17	1
	10,862	0	10	10,817	8	6	11,157	3	5	£11,185	0	6
† Surrender value of Leasehold Redemption Policy	£455	5	0	£553	10	0	£653	9	0	£756	19	0

FOUR YEARS' INCOME AND

EXPENDITURE	*1934–35	*1935–36	1936–37	1937–38
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Administration :—				
Salaries	1897 7 4	2050 7 11	2214 18 4	2195 6 5
Superannuation ..	50 0 0	38 8 9	282 16 8	185 0 0
National Insurances ..	12 2 0	14 0 3	15 0 11	11 2 5
Printing and Stationery	80 18 11	128 15 2	96 2 9	113 13 4
Postages and Telegrams	67 14 9	58 13 2	88 6 5	106 10 11
Telephone	20 3 7	20 16 6	26 12 4	23 10 4
Books and Newspapers	33 13 0	22 7 7	32 6 3	22 4 7
Audit and Accountancy Fees	15 15 0	15 15 0	15 15 0	15 15 0
Miscellaneous	122 9 8	119 16 11	194 16 7	198 0 5
	2300 4 3	2469 1 3	2967 5 3	2871 3 5
Maintenance :—				
Rent	150 0 0	150 0 0	150 0 0	150 0 0
Rates	71 0 7	76 17 10	79 2 6	81 4 8
Heating and Lighting	46 11 5	51 4 5	56 1 5	58 19 10
Insurances	5 12 8	5 18 1	6 3 8	6 4 10
Household Expenses ..	50 6 5	54 15 5	49 17 1	51 10 7
Furniture and Fittings	18 8 0	59 0 4	16 12 0	21 9 10
Repairs and Decorations	25 1 2	21 17 9	41 18 1	24 7 1
	367 0 3	419 13 10	399 14 9	393 16 10
Other Charges :—				
Allowance to late Clerk	25 0 0	25 0 0	25 0 0	25 0 0
Yearbook	619 3 9	611 7 3	639 16 1	717 4 2
Lease Redemption Premium	90 8 4	90 8 4	90 8 4	90 8 4
	734 12 1	726 15 7	755 4 5	832 12 6
Total	3401 16 7	3615 10 0	4122 4 5	£4097 12 9

* In this statement the charges incurred during 1934–36 on account of the 1936 Congress have not been included.

BALANCE

LIABILITIES	1934–35	1935–36	1936–37	1937–38
	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Capital A/c	10,199 10 10	10,302 17 1	10,302 17 1	10,302 17 1
Income and Expenditure A/c	415 19 6	443 3 7	491 19 11	477 3 5
Subscriptions carried forward	275 0 0	225 0 0	140 0 0	405 0 0
Sundry Creditors ..	107 11 4	31 15 2	—	—
	10,998 1 8	11,002 15 10	10,934 17 0	£11,185 0 6

COMPARATIVE STATEMENTS

EXPENDITURE ACCOUNTS

INCOME	1934–35			1935–36			1936–37			1937–38		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Subscriptions of Member Institutions :—												
Great Britain and Ireland	2370	0	0	2370	0	0	2405	0	0	2405	0	0
Overseas	1055	12	2	1080	0	0	1055	0	0	1090	0	0
Sales of Yearbook :—												
Publishers	*190	10	6	*222	15	9	*199	18	0	*218	10	3
Bureau	49	11	4	50	14	10	46	18	2	63	16	4
Advertisements in Yearbook	74	12	4	78	3	0	76	12	4	88	8	11
Sales of Congress Reports, etc.	5	5	1	9	7	8	257	15	7	35	16	3
Cecil Peace Prize Contribution	10	0	0	10	0	0	10	0	0	10	0	0
Interest on Investments	412	4	8	378	7	8	316	0	8	317	11	4
Total	4167	16	1	4199	8	11	4367	4	9	£4229	3	1

* For reasons explained in the Note on the Financial Statements in the 1933–34 Report, these amounts representing actual and probable Yearbook Receipts have not been included in the Income and Expenditure Accounts for 1934–35, 1935–36, 1936–37, and 1937–38 respectively, but are shown here for purposes of comparison.

SHEETS

ASSETS	1934–35			1935–36			1936–37			1937–38		
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Investments	7731	13	9	6841	11	9	8379	5	6	8379	5	6
Sundry Debtors	411	13	1	603	9	8	216	10	10	232	18	10
Cash at Bank	246	9	11	898	17	10	88	9	1	101	11	3
Petty Cash	4	7	0	5	12	2	5	0	11	3	7	10
Building at 88a Gower Street	†2467	17	1	†2467	17	1	†2467	17	1	†2467	17	1
	10,862	0	10	10,817	8	6	11,157	3	5	£11,185	0	6
† Surrender value of Leasehold Redemption Policy	£455	5	0	£553	10	0	£653	9	0	£756	19	0

UNIVERSITIES OF GREAT BRITAIN AND IRELAND

Historical and General Summary

Universities were the outcome of the great intellectual revival which affected Europe in the twelfth and thirteenth centuries. Shortly after the Schools of Bologna and Paris had developed into what we now term Universities, similar seats of learning arose at Oxford and Cambridge, the nucleus of organization being, as at Paris, a corporation of masters—not, as at Bologna, a corporation of students—and many of the students being boys of fourteen or even younger. Instruction was in the form of lectures by licensed teachers. To the Seven Liberal Arts of the mediæval schools (the "trivium"—grammar, logic and rhetoric, and the "quadrivium"—arithmetic, geometry, music and astronomy) the Universities added the three higher "Faculties" of theology, law and medicine in order to provide complete preparation for the learned professions. The Scottish Universities, except Edinburgh, were founded in the fifteenth century, but the country had not been greatly influenced by the Revival of Learning, and although the earliest Reformers were in touch with continental scholars, and some attempts were made to introduce the New Learning into the schools and universities, the mediæval scholastic tradition remained paramount in St. Andrews and Glasgow until the seventeenth century. Aberdeen was more receptive to *renaissance* influences. The University of Edinburgh originated in a College established by the Town Council in 1583. Trinity College, Dublin, was founded by Queen Elizabeth in 1591 on the lines of the Oxford and Cambridge colleges.

After the Reformation a demand arose in England for education of a more secular type, but the Acts of Uniformity (1559 and 1662) and similar measures stereotyped the schools and universities as clerical and theological institutions, and by the latter half of the eighteenth century the teaching in the Universities had become mainly traditional and formal and they were rapidly losing their hold on the national life.

Readjustment to modern conditions took place in the course of the nineteenth century. Already in 1779 Protestant Dissenters, and in 1791 Roman Catholics, had been emancipated from the ban against their following the teaching profession. The few Denominational

tests retained by the older Universities were abolished in 1871. Oxford in 1800 established a system of written examinations for the bachelorship, and Cambridge, in 1824, the classical Tripos. Soon afterwards both Universities instituted non-classical Honour examinations. The University Commissioners of 1850 and 1877 made provision at Oxford and Cambridge for the endowment of the teaching of modern subjects and the throwing open of scholarships to students of such subjects removed practically all obligations to take orders in the Church of England and did much to make the Universities accessible to all classes of the community.

Pursuant to the recommendations made by the Royal Commission of 1919, important constitutional and other changes have been effected at Oxford and Cambridge by the Statutory Commissioners appointed in 1923. *See* the sections relating to these Universities in the 1929 *Yearbook*.

In 1836 a charter was granted to the University of London empowering it to grant degrees to the students of University College (founded on an undenominational basis as the " University of London " in 1826) and King's College (founded in 1829) and of such other institutions as might become affiliated for purposes of examination. The University was reconstituted in 1900. The University of Durham, which in its original conception followed closely the lines of Oxford, received its charter in 1837. It was partly endowed out of the funds of the See and Chapter of Durham. The Colleges in which the other English Universities originated were founded as follows: Owens College, Manchester, 1851; Yorkshire College, Leeds, 1874; University College, Bristol, 1876; Firth College, Sheffield, 1879; Mason College, Birmingham, 1880; University College, Liverpool, 1881; the University Extension College, in conjunction with the Schools of Science and Art, Reading, in 1892. Created to minister to local needs and supported largely by local benefactions, they were naturally closely associated with local industries, and from the first laid stress upon the study of mathematical, scientific and modern subjects. Reading differs from the others in having been established in a town of comparatively small size (population less than 100,000), in the prominence given to work bearing on the agricultural and associated industries and in its policy of making residence in college or hostel the rule for its students. The Royal College of Science and the Royal School of Mines originated in a Technical School formed in 1851 in connexion with a Museum of Practical Geology. They, with the City and Guilds (Engineering) College, founded in 1881, became integral parts of the Imperial College of Science and Technology which was established in 1907 with the declared purpose of giving the highest specialized instruction and providing for research in the various branches of science, especially in its applications to industry.

A University of Wales was projected early in the fifteenth century, and the project was revived in Cromwell's time, but it did not materialize until 1893. The constituent colleges at Aberystwyth, Cardiff, Bangor, and Swansea were founded in 1872, 1883, 1884 and 1920 respectively. They are thoroughly indigenous to the Principality, much of the funds having been collected in very small sums from

workpeople at the doors of churches and chapels. The Welsh National School of Medicine at Cardiff was incorporated in the University in 1931.

The two modern Irish Universities both date from 1909. In 1850 a Royal Charter was granted to the recently established Queen's Colleges of Belfast, Cork, and Galway, constituting them a Federal University, which was absorbed in 1880 in the Royal University. University College, Dublin, representing the Catholic University established by the Irish Bishops in 1854, became with the Cork and Galway Colleges in 1909 constituents of the National University of Ireland, while Queen's College, Belfast, became the Queen's University of Belfast.

A characteristic of British Universities, as compared with those of the Continent of Europe, has from the earliest days been the provision of colleges or halls of residence, in which students live as members of a community, with the privileges of social intercourse and subject to the mutual influence which corporate life exerts.

Women were first admitted to Degrees by the University of London in 1878. Bedford College had already been founded in 1849; the three other colleges for women in connexion with the University of London were founded, Westfield in 1882, Holloway in 1886 and King's in 1892. The last was merged in King's College, London, in 1915. King's College of Household and Social Science was founded in 1908 as a department of King's College for Women, and became a separate "School" of London University in 1928. At Oxford, Lady Margaret Hall was opened in 1878, Somerville in 1879, St. Hugh's in 1886 and St. Hilda's in 1893. Of the Cambridge colleges, Girton originated at Hitchin in 1869 and was removed to the near neighbourhood of Cambridge in 1873. Newnham was founded in 1880. Cambridge admitted women informally to Tripos examinations in 1872 and to the titles of degrees in 1923; in 1926 women were declared eligible to university teaching posts and therefore to membership of boards of faculties. Oxford admitted them to examinations in 1884, to degrees and full membership in 1920 and to university teaching posts in 1927. Women have been admitted to the Universities of Scotland since 1892, Durham since 1896, Dublin since 1904 and to all the modern Universities from their foundation.

Unlike those of most other countries, the Universities of the United Kingdom have been, since their origin, independent of State control, although for many years they have been in receipt of State aid.

Up to the year 1913–14 the Board of Education presented to His Majesty the King in Council a Report supplying information in regard to University institutions in England and Wales which were in receipt of grants from the Board. This publication was discontinued during the war. In July, 1919, the Chancellor of the Exchequer appointed a Standing Committee "to enquire into the financial needs of University Education in the United Kingdom and to advise the Government as to the application of any grants that may be made by Parliament towards meeting them." This Committee has since annually presented a statistical abstract of the chief facts and figures relating to the Universities and Colleges of the whole country, and has quinquennially reviewed the

financial needs and progress of all the institutions. On its constitution as the University Grants Committee (22A Queen Anne's Gate, S.W.1) in July 1919 an amount of £1,000,000 (including Ireland) was made available for distribution to Universities and University Colleges in the year 1919–20. Since that date there have been periodic increases in the amount of the grant, which, " subject to the overriding necessities of national finance," now stands at £2,100,000 (excluding Ireland), for the period ending July 31, 1941. A reserve of £150,000 was provided in 1936–37 for non-recurrent grants.

In the year 1936–37 grants were paid by the Board of Education to the University Training Departments under the Board's Regulations for the Training of Teachers, amounting to £302,234.

In the year 1936–37 Local Education Authorities provided £335,653 for aiding students at Universities (including members of Training Departments) and £73,605 for students in Training Colleges, and Local Authorities also made grants to Universities amounting to £509,959.

For information regarding scholarships, *see* p. 15.

The academic year is divided into three terms, which run from about October 1 to the middle of December; middle of January to end of March; middle of April to end of June or beginning of July.

Degrees conferred by the Universities of Great Britain and Ireland

The older Universities have developed out of the Universities of the Middle Ages under the compulsion of internal forces, with very little influence from outside. The historical continuity of their evolution and their individual independence account for certain customs and usages in which they differ one from another and from Universities in other lands. Their titles of degrees afford an illustration of this. A University of the Middle Ages was a Guild of learned men. Teaching was the craft of the Guild, whose fellowship carried with it the right to teach. An admitted aspirant for fellowship was termed a bachelor. The members of the Guild recognized his apprenticeship after submitting him to certain tests or, as we should term them, examinations. After gaining some experience in teaching, and successfully maintaining a thesis in public disputation, the bachelor attained to his degree. Admitted into the Guild, with its *jus ubique docendi*, he was known indifferently as doctor, master or professor. Still following this ancient usage, the degree in Scotland is the mastership, M.A. In Oxford, Cambridge and Dublin, where the examination for the bachelorship grew to be the determining test, the mastership, which carries with it all the privileges of membership of the Guild or Senate, follows without further examination after an interval of two or three years, but in no case less than six years from matriculation. For convenience in standardizing the attainments of their alumni, modern Universities have divided the degree into stages—usually described as the " first " and the " higher " degrees—Bachelorship, Mastership and Doctorate. The conferment of a first degree now marks the satisfactory completion of a three or four years' University course.

At Oxford and Cambridge the Faculty of Arts is not subdivided. B.A. is the " first degree," whether the course leading to it be literary or scientific. At Oxford the B.Litt. and B.Sc. are awarded for special study and research, like the M.Litt. and M.Sc. of Cambridge. At Cambridge there is no B.Sc. At St. Andrews the B.Phil. or the B.Litt. may be taken either conjointly with, or after, the M.A. In Trinity College, Dublin, a B.Sc. course, including no classical language, was introduced in 1926, but it is expected that most Science students will continue to take the B.A., which remains the primary degree, and must be obtained before proceeding to any other degree except Mus.B., Mus.D., B.Sc. and Ph.D.

At all other Universities a course in Arts leads to the B.A. (in Scotland, M.A), in Science to the B.Sc. and similarly to other titles in other departments of knowledge.

Each of the Faculties of Theology, Law, Medicine and Music has its own bachelor's degree (v. *infra*).

The first degree may be obtained in most Faculties either as an ordinary degree or with Honours.

In addition, at all Universities Diplomas and Certificates are granted in a variety of subjects (*see* the several Universities).

The signatures of the titles of the Degrees conferred in the various Faculties are set forth below—the more usual signature being ordinarily placed first. Fuller details will be found under the several Universities and in the Introductory Chapter relating to the Scottish Universities.

Faculty of Arts and Cognate Subjects

First Degrees

Bachelor of Arts. B.A. (all Universities except Scottish).

Master of Arts. M.A. (Scottish Universities only).

Administration. B.A. (Admin.) Manchester.

Architecture B.A. Cambridge ; B.Arch. Durham, Liverpool, Wales, N.U.I. ; B.A. (Arch) London ; B.A. (Hons. in Architecture) Manchester, Sheffield.

Commerce. B.Com., B.Comm. Dublin, N.U.I. ; B.Com.Sc. Belfast ; B.A.Com. Bristol, Manchester.

Literature. B.Litt. St. Andrews. (With or after M.A.)

Philosophy. B.Phil. St. Andrews. (With or after M.A.)

Faculty of Science and Cognate Subjects

First Degrees

Bachelor of Science. B.Sc.

Agriculture. B.Sc. (Agr.) Bristol, London, Reading, Aberdeen, Edinburgh, Glasgow ; B.A. Cambridge ; B.Agr. Belfast ; Agr.B. Dublin ; B.Agr.Sc. N.U.I.

Applied Chemistry. B.Sc. (App. Chem.).

Applied Science. B.Sc. (App. Sc.) (as distinguished from the B.Sc. in Pure Science). *See also* p. 353.

Architecture. B.Sc. (Arch.) Glasgow. *See also* Arts Degrees.

Dairying. B.Sc. (Dairying) Reading, N.U.I.

Domestic Science. B.Sc. (Dom. Sc.) Bristol.

Economics. B.Sc. (Econ.) London.

Engineering. B.Sc., B.Sc. (Eng.); B.A. Cambridge, Oxford; B.Eng. Liverpool, Sheffield; B.Sc.Tech. Manchester; B.A.I. Dublin; B.E. N.U.I.

Estate Management. B.A. Cambridge; B.Sc. (Est. Man.) London (External students only).

Forestry. B.Sc. (For.); Agr. (Forest.) B. Dublin.

Horticulture. B.Sc. (Hort.) London, Reading.

Household and Social Science. B.Sc. (H. & S. S.) London (Internal students only).

Industrial Fermentation. B.Sc. Birmingham; B.Sc.Tech. Manchester.

Metallurgy. B.Sc.; B.Eng. Liverpool; B.Sc.Tech. Manchester; B.Met. Sheffield.

Mining Engineering. B.Sc.; B.Eng. Sheffield; B.Sc.Tech. Manchester, Sheffield.

Naval Architecture. B.Sc.; B.Eng. Liverpool.

Oil Engineering and Refining. B.Sc. Birmingham, London.

Technology. B.Sc.Tech. Manchester, Sheffield.

Textile Technology. B.Sc (Textiles) Leeds; B.Sc.Tech. Manchester; B.Sc. (Text. Tech.) Belfast.

General Honours Degrees in Arts

Birmingham—A General Honours Degree is conferred in three allied grouped subjects in the Faculty of Arts (in the final year, two subjects); the official title is B A. with Honours in Grouped Subjects.

Leeds—Candidates for the Degree of B.A. with General Honours attend approved courses and pass the prescribed examinations in (*a*) three subjects studied for three years, of which one subject, selected from fifteen, shall be taken at General Honours standard, (*b*) one other subject studied for one year.

Liverpool has abolished the distinction between the Ordinary Degree and the Degree with Honours. The Degree of B.A. is now conferred either as a degree in General Studies or as a degree in Special Studies in one of the Schools of the Faculty. Honours may be awarded in both General and Special Studies.

Manchester—Composite Honours Schools have been instituted, the first being a combination of Greek and English.

Sheffield—Honours are awarded in the General B.A. Examination.

General Honours Degrees in Science

Bristol—An Honours Degree in General Science has been instituted with two main subjects and one subsidiary.

Durham—A General Honours Degree in Science has been instituted, courses being available at King's College, Newcastle upon Tyne.

Leeds—Candidates for the degree of B.Sc. with General Honours attend approved courses for at least 3 yrs. and pass examinations in two subjects at General Honours standard *and* in either (*a*) one other subject at subsidiary (2 yr.) standard, or (*b*) two other subjects at introductory (1 yr.) standard.

Liverpool—General Science is included among the Honours Schools of the Faculty.

London—Honours are awarded in the B.Sc. General Examination.

Manchester—An Honours Degree in General Science may be conferred in any one of the following *four* sections: (i.) Chemistry, Physics and Maths.; (ii.) Botany, Zoology and Chemistry; (iii.) Geology, Geography and Botany or Zoology; (iv.) Maths. and Physics with Elem. Botany and Zoology.

Sheffield—Honours are awarded in the General B.Sc. Examination.

Higher Degrees in the Faculties of Arts, Science and Cognate Subjects

Bachelorships

B.Litt., B.Sc. Awarded at Oxford for special study and research. Students reading for the B.Sc. may change over in the middle of their course to the D.Phil. (*q.v.*), or *vice versa*.

B.Litt. Dublin. Obtained by Thesis. Candidates must have at least one year's standing as B.A.

B.Ed.; Ed.B. Scottish Universities. Two years after a first degree.

Masterships

M.A. At Cambridge a Bachelor of Arts may, without further examination, proceed to the M.A. at the close of the 6th yr. after the end of his first term; at Oxford in the twenty-first term after matriculation; at Dublin 3 yrs. after passing the B.A. examination. At Durham graduates in Honours—1st or 2nd class—of 3 yrs.' standing are admitted to the M.A. without examination; other graduates must pass the M.A. examination. At Sheffield the M.A. may be conferred on a B.A. of the University of not less than 1 yr.'s standing who has presented a thesis approved by the Faculty concerned, passed an oral examination and, if required by Faculty, a written examination in matters relevant to the subject of the thesis; and on graduates of other Universities subject to specified conditions. Other Universities exact a further period of study from their own graduates, followed by the presentation of a thesis, or an examination, or both, of 1 yr. at Birmingham, Leeds, Belfast and the N.U.I.; of 1 yr. from graduates with Honours, and 2 yrs. from others, at Manchester and Wales; of 2 years from all graduates at Bristol, Liverpool, London and Reading. Graduates of approved Universities can, under certain conditions, obtain the Mastership after 1 yr. of advanced study and research at Birmingham and the N.U.I.; after 2 yrs. at Bristol, Leeds, Liverpool, London, Manchester, Reading and Wales (thesis required). At London a thesis is required from Internal

students in all branches, except Mathematics and Geography, in which it is optional, and an examination. At Bristol, Leeds, Liverpool and Manchester persons who have not graduated can obtain the M.A. degree after a course of advanced study and research extending, usually, over 3 years.

M.Sc. This degree is not conferred by Oxford or any of the Scottish Universities. At Cambridge the degree is conferred upon students admitted to a course of research extending over not less than 2 yrs. and after submission of a dissertation. At other Universities it can be obtained by graduates of the University under conditions similar to those for the M.A. At Durham, by graduates, B.Sc., of 2 yrs.' standing after examination or thesis. At Bristol and Leeds, by graduates, B.Sc. with Honours, of 1 yr.'s standing (other Bachelors of any Faculty of 2 yrs.' standing), after research (thesis required). At Liverpool, by graduates, B.Sc., with Honours, after 1 yr.'s higher study (thesis required). At London, by Internal students of 1 yr.'s or 2 yrs.', by External students of 2 yrs.' standing from B.Sc. with thesis (optional in Mathematics and Geography) and examination. At Manchester, by graduates, B.Sc., of 1 yr.'s standing after thesis and examination (at the discretion of the Faculty). At Sheffield, by graduates, B.Sc. of the University, who have attended the University for not less than one further year, presented a thesis approved by the Faculty concerned, passed an oral examination and, if required by Faculty, a written examination in matters relevant to the subject of the thesis ; and on graduates of other Universities subject to specified conditions. The M.Sc. is also conferrable upon a B.Sc. of the University of not less than 2 yrs.' standing who has presented a thesis approved by the Faculty and passed an oral examination. The M.Sc. Wales may be conferred on a graduate in Science of the University of Wales or of another approved University, 2 yrs. required from a Pass graduate, 1, from an Honours graduate. Graduates of other Universities must pursue a scheme of research in a constituent College of the University for not less than 2 yrs. A thesis is required from all candidates. In other Universities which confer the degree, graduates of approved Universities can obtain the M.Sc. on terms similar to those for the M.A. ; at Durham or Reading, after 2 yrs.' advanced study in the University.

Other Titles of Mastership conferred by various Universities

M.A. (Admin.) (Manchester) ; M.Agr. (Belfast) ; M.Agr.Sc. (N.U.I.) ; M.A. (Arch.) (London) ; M.Arch. (Liverpool, N.U.I.) ; M.A.I. (Dublin) ; M.Comm. (N.U.I.) ; M.Com. (Birmingham, Durham, Leeds, Liverpool, London) ; M.A. (Com.) (Manchester) ; M.Ed. (Durham, Leeds, Manchester) ; M.Econ.Sc. (N.U.I.) ; M.Eng. (Liverpool, Sheffield) ; M.Litt. (Cambridge, Durham) ; M.Met. (Sheffield) ; M.Sc. (Agriculture) (Reading) ; M.Sc. (Dairying) (Reading, N.U.I.) ; M.Sc. (Horticulture) (Reading) ; M.Sc.Tech. (Manchester, Sheffield).

Doctorates

The Doctorate in Letters or in Science (Litt.D., D.Lit., D.Litt., Sc.D., D.Sc.) is conferred upon Masters of Arts or Science or Doctors of Philo-

sophy (Wales and Dublin, also Bachelors) distinguished by their contributions to the advancement of learning or science. The claim to the degree must be based either upon a special thesis, as at London, or upon published works. In certain Universities the Faculty may require the applicant to appear for examination. An applicant for the Doctorate must be of the following standing: 3 yrs.' from graduation at Dublin, Belfast (for D.Sc.), N.U.I. (for D.Sc.Pub.Health). 4 yrs.' from graduation at Manchester and London (for D.Sc. and External D.Lit.). 5 yrs.' from B.A. or B.Sc. or 3 yrs. from M.A. or M.Sc. at Birmingham (for D.Litt., D.Sc.); 5 yrs.' from graduation at Sheffield (for Litt.D., D.Sc., D.Eng., D.Sc.Tech., D.Met), at N.U.I. (for D.Litt., D.Litt.Celt., D.Sc.) and at the Scottish Universities. 6 yrs.' from graduation at Durham (for D.Sc.); at Belfast (for D.Lit.); at Leeds (for Litt.D. and D Sc.); at Bristol and Reading (4 yrs.' from M.A. or M.Sc., 3 yrs.' from Ph.D.). 7 yrs.' from graduation at Oxford (D.Litt.); at London (for Internal D.Lit.). 8 yrs.' from graduation at Cambridge (for Litt.D. and Sc.D.). 10 yrs.' from graduation at Durham (Litt.D.); at Wales (3 yrs.' from M.A. or M.Sc., 2 yrs.' from Ph.D.). For Litt.D., D.Sc. and D.Eng. at Liverpool, *see* p 121.

Graduates of other Universities who have been admitted to the degree of M.A. or M.Sc. (Oxford M.A., B.Sc. or B.Litt.; Dublin B.A.) can proceed to the Litt.D. or Sc.D. under the prescribed regulations. In Scotland Honours graduates of approved Universities of 5 yrs.' standing, who have spent the equivalent (4 terms) of two winter sessions in research at a Scottish University, have submitted a satisfactory thesis or published work and have, if required, passed an examination, are admitted to the Doctorate (*see* p. 353). At Bristol the degree of D.Sc. can be obtained without previous admission to the M.Sc. At London a candidate for the Doctorate may be specially exempted from the examination for M.A. or M.Sc.; at Manchester, from the examination for M.Sc. At Cambridge and at Wales, graduates of other Universities are not eligible to become candidates for the Degree of Doctor unless they have previously qualified for a degree of the University. For Doctorates in other Faculties v *infra*.

Degrees in the Faculty of Divinity

B.D. After examination in the Scottish Universities and the Universities of Durham, London, Manchester and Wales. After examination (waived in the case of graduates in Theological Studies) and submission of a thesis at Leeds; graduates of other Universities being required to attend at Leeds courses for 2 yrs. After examination and submission of a thesis at Dublin. At Cambridge after submission of a dissertation or published words. After examination and the submission of a dissertation and published works at Oxford. At London the course must extend over 3 yrs., subsequent to matriculation. In Scotland a candidate must be M.A. of a Scottish University who has taken a theological course in a specially recognized institution, or a graduate of an approved University who has taken a complete theological course of at least 2 yrs. in the University conferring the degree; at Dublin, a B.A. of 3 yrs.' standing; at Durham he must be either a graduate of 2 yrs.' standing or the holder of

the Diploma in Theology; in Wales, a graduate who, subsequent to graduation, has studied for 3 yrs. at one of the Associated Theological Colleges or Schools of Theology of the University; at Cambridge, a candidate who is a graduate of the University of not less than five years' standing from admission to his first degree; at Oxford the degree is open to Oxford M.A.s and graduates of other Universities (degree not conferred until they are 26) who have followed a course of study in Christian Theology extending over 6 terms and resided at the University during 6 terms. The B.D. may be taken with Hons. at some Universities.

D.D. In Scotland the degree is conferred *honoris causa tantum*. At London it is conferred upon Bachelors of Divinity who took Honours in at least one subject, on presentation of a dissertation, followed by an examination if the examiners so desire. At other Universities it is conferred in consideration of published works or a dissertation (and, at Oxford, a *viva voce* examination, if the judges so desire). The requisite standing is, at Cambridge, 3 yrs. from B.D.; Dublin, 8 yrs. from B.A.; Durham, 10 yrs. from B.A.; Manchester, 4 yrs. from B.D. (or 6 yrs. for Bachelors of Divinity of other Universities who have studied for 2 yrs. at Manchester); Oxford, 14 yrs. from matriculation, or, if he was admitted to the degree of B.D. as a graduate of another University, the candidate must have attained the age of 33; Wales, 6 yrs. from B.D.

Degrees in the Faculty of Law

LL.B., B.C.L. (Durham, Oxford), **B.L.** (Aberdeen, Edinburgh, Glasgow). At the English Universities (except Cambridge and Oxford), at Wales and Belfast the course for the **LL.B.** extends over 3 yrs. from matriculation (with honours, 4 yrs. in some cases). At Cambridge students who have obtained Honours in Part I. or II. of the Law Tripos are admitted to the LL.B. examination not earlier than the tenth term after their first, and other approved students are also admitted subject to regulations regarding residence and study. At Aberdeen, Edinburgh and Glasgow candidates must be graduates of approved Universities and pursue a course of study for 3 yrs. At Dublin they must be graduates of Dublin, Cambridge or Oxford and pass two examinations in Law. At N.U.I. they must pursue an approved course of study for at least 2 yrs. subsequent to obtaining the Degree of Bachelor of Arts of the University.

B.C.L. At Durham candidates must be Bachelors of Arts of the University of 2 yrs.' standing. At Oxford they must be graduates and keep residence for 6 terms (Bachelors of Arts of the University, 12 terms from matriculation).

B.L. Candidates must pass the Preliminary or an equivalent examination and pursue an approved course of study for 3 yrs.

LL.M. Conferred by Birmingham, Bristol, Durham, Leeds, Liverpool, London, Manchester, Sheffield, Wales on graduates of the University and of approved Universities; by Cambridge on LL.B.s of the University of 2 yrs.' standing, by thesis. *Graduates of the University*: At Leeds and Sheffield, on LL.B.s of 1 yr.'s standing, at Durham and Manchester, of 2 yrs.' standing, on presentation of thesis. By examina-

tion at Birmingham and Wales after 1 yr.'s study, at London after 1 yr.'s study for Internal students and 2 yrs.' for External. At Liverpool after 2 yrs.' study. *Graduates of approved Universities*: Birmingham, after 1 yr.'s study, by examination; Bristol, Durham, Leeds, Manchester and Wales, after 2 yrs.' study, by thesis; Liverpool, 2 yrs.' study, by examination or thesis; Sheffield, 2 yrs.' study, by examination and thesis; London, 2 yrs.' study, by examination.

LL.D. or **D.C.L.** (Oxford, Durham). By the Scottish Universities the Doctorate is awarded only *honoris causa tantum*. Other Universities, unless the degree be awarded *honoris causa*, require the submission of a thesis, dissertation or published works, and may require attendance at an examination; in Dublin a candidate may elect to undergo examination in lieu of offering a thesis, etc. The requisite standing for the Doctorate is, at London, any time after the LL.M. or Ph.D.; Belfast, 3 yrs. from LL.B. if thesis; Dublin, 3 yrs. from B.A. of Dublin, Oxford or Cambridge; Manchester and Sheffield, 4 yrs. from LL.B.; N.U.I., 5 yrs. from LL.B.; Birmingham, 5 yrs. from LL.B. or 3 yrs. from LL.M.; Oxford (D.C.L.), 5 yrs. from B.C.L.; Cambridge, 8 yrs. from first Cambridge degree; Bristol, 4 yrs. from LL.M.; Liverpool, 5 yrs. from LL.M.; Leeds, 6 yrs. from LL.B.; Durham (D.C.L.), 10 yrs. from B.A.; Wales, 10 yrs. from graduation or 3 yrs. from LL.M. or 2 yrs. from Ph.D.

Degrees in the Faculties of Medicine and Surgery and Cognate Subjects

M.B., B.M. (Oxford), **Ch.B., B.Chir.** (Cambridge), **B.Ch.** (Oxford, Wales, Belfast, Dublin, N.U.I.), **B.S.** (Durham, London). (Obtainable as an ordinary degree or with Hons.) The regulations for these degrees are practically uniform. Satisfactory attendance is required during at least 5 yrs. at courses of study and hospital practice. Four examinations (in some Universities grouped as three or two) must be passed. All examinations must be passed at the University granting the degree, except at Birmingham, Bristol, Durham, London, Oxford (Senior students), the Scottish Universities and Dublin (for S. African students only), where a candidate may be exempted from the first examination in Chemistry, Physics and Biology if he has passed an equivalent examination elsewhere. At St. Andrews similar exemption may be obtained from the second examination in Anatomy and Physiology. Study in the University for at least 3 yrs. is required (2 yrs., Scottish Universities, Leeds, Manchester), except for External degrees of the University of London, where candidates study for 4½ yrs. (after the First Professional Examination), at any recognized Medical School, 1 yr. of which must be spent in the United Kingdom. The Universities of Oxford and Cambridge exact 3 yrs.' residence, but allow students to do any or all of their clinical work at other recognized medical schools. At Oxford, Dublin, Wales, candidates must graduate B.A. (or B.Sc. Wales) before admission to a medical degree. The B.A.O. and the M.A.O. (Obstetrics) are conferred by Belfast, Dublin and N.U.I.

M.D. or **D.M.** (Oxford). Candidates must be Bachelors of Medicine

and Surgery of the University of, ordinarily, 2 yrs.' standing (Birmingham, Manchester and Scottish Universities, 1 yr.'s standing; Sheffield, 3 yrs.'; Belfast, 3 yrs.' or 2 yrs. from B.A. or B.Sc. with M.B.; Dublin of M.A. standing; Cambridge, 8 yrs. from admission to first Cambridge degree; Oxford, 10 yrs. from matriculation). A dissertation is compulsory at most Universities, followed by an examination, unless the examiners pronounce the dissertation to be of such merit as to render further examination unnecessary. At Birmingham graduates in medicine of other approved Universities may present themselves for the M.D. after two years of approved study. This University also grants an M.D. in State Medicine; candidates must hold the D.P.H. of a British University.

Ch.M., M.Ch., M.S. (London and Durham), **M.Chir.** (Cambridge). Regulations somewhat similar to those for M.D. The **M.Ch.(Orth.)** is granted by Liverpool; candidates must be graduates of an approved University. Attendance and study at Liverpool during 15 mths. before examination is required. In addition to the M.S. Durham grants a **D.Ch.** open to candidates who subsequent to having obtained a registrable qualification have devoted 3 yrs. (including at least one in the University) to the study of surgery and ancillary subjects.

Degrees in Dentistry—**B.D.S., B.Ch.D.** (Leeds), **B.Dent.Sc.** (Dublin)—are granted by all Universities except Cambridge, Oxford, Reading, Wales, Aberdeen, Edinburgh and Glasgow (period of study generally about 5 yrs.). Diplomas in Dental Surgery—L.D.S.—are awarded by the Universities of Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield, St. Andrews and Belfast (period of study generally 4 yrs.). The degree of Master of Dental Surgery—**M.D.S., M.Ch.D.** (Leeds), **M.Dent.Sc.** (Dublin)—is awarded by all Universities granting a first degree, except London. Candidates must generally be Bachelors of Dental Surgery of 1 to 3 yrs.' standing and must present a thesis and/or undergo an examination. At Leeds, in addition to having been admitted to the degree of Bachelor of Surgery at least 1 yr. previously, candidates must also have obtained a registrable medical qualification. The University of London awards the degree of M.S. in Dental Surgery. In order to be admitted to the examination candidates must first have obtained the degrees of Bachelor of Medicine and Surgery. The University of Manchester confers the degree of **D.D.S.** on graduates in Dental Surgery (or graduates in Medicine and Surgery or in Science, who hold an approved dental qualification) of the University of 2 yrs.' standing, after 2 yrs.' approved study and research and submission of thesis.

Degrees in Pharmacy are conferred by London and Wales (**B.Pharm.**), by Manchester and Glasgow (**B.Sc.** in Pharmacy) and by Belfast (**B.Sc.** in Pharmaceutics). The course extends over 3 yrs. except at Glasgow where it extends over 4 yrs. and leads to an Honours degree.

Degrees in Public Health are conferred by Durham (**B.Hy.** and **D.Hy.**) and by Glasgow and N.U.I. (**B.Sc.** and **D.Sc.** in Public Health). Candidates for the Bachelor's degrees must be graduates in medicine of

2 yrs.' standing ; the D.Hy. and D.Sc. (N.U.I.) are conferred 2 yrs. after the Bachelor's degree and the D.Sc. (Glasgow) 5 yrs. after the Bachelor's degree.

Degrees in Veterinary Science are awarded by Liverpool (**B.V.Sc., M.V.Sc.** after 2 yrs.' further study and **D.V.Sc.** 3 yrs. after M.V.Sc. for published contributions to science), London (**B.Sc.** in Veterinary Science, **M.Sc.** 1 or 2 yrs. later by examination and **D.Sc.** open to Masters for original contributions to advancement of science) and Edinburgh (**B.Sc.** in Veterinary Science and **D.Sc.** 3 yrs. later by thesis).

Degrees in the Faculty of Music

Mus.B., B.Mus., Mus.Bac. At Birmingham, Cambridge, London, Manchester, Wales, Edinburgh, Glasgow, Dublin, and N.U.I. students must pass the same Entrance examination (Matriculation, Previous, or Preliminary) as students in Arts ; with, at Birmingham, where the degree is an Honours degree, an examination in theory and in execution. At Durham they are admitted on a *testamur* as Students of Music. At Oxford they must pass Responsions. At Sheffield they must pass the Intermediate Examination for the B.A. degree. In Wales they must attend an intermediate class in Arts or Science in addition to the Music course. Residence is not obligatory at London, Dublin or Durham. At Edinburgh students must study Music in the University for one whole winter session. As a rule, the course extends over 3 yrs. with two, or three, examinations, including an exercise for the Final examination. Honours in this degree are obtainable at Birmingham, Manchester, Edinburgh, Glasgow and Wales.

Mus.M., M.Mus. At Cambridge and Wales conferred on Bachelors of Music (and Bachelors of Arts with Honours in Music at Wales) of the University of ordinarily 2 yrs.' standing after examination and submission of an exercise ; at Birmingham on Bachelors of Music of Birmingham and other approved Universities after 1 yr. of approved study or research, examination and submission of 3 original compositions or thesis.

Mus.D., D.Mus., Mus.Doc. Conferred after examination and submission of original composition or thesis on Bachelors of Music of the University—London (2 yrs.' standing), Oxford and Edinburgh (3 yrs.' standing—Oxford also on M.A.s), Manchester (4 yrs.' standing, after 1 yr.'s further study), Birmingham, Durham, Sheffield, Glasgow and N.U.I. (5 yrs.' standing—Birmingham also 3 yrs. from M.Mus.). Cambridge, 8 yrs.' standing from first Cambridge degree, in recognition of distinction as composer. Wales, 9 yrs.' standing or 2 yrs. after M.Mus., on submission of original composition. The doctorate is conferred on graduates of approved Universities by Durham (same conditions as for graduates of the University), Manchester (2 yrs.' study at the University) and Glasgow (3 yrs.' study at the University).

Doctor of Philosophy

In May 1917 representatives of the Universities and University Colleges met in Conference to devise measures for the further encourage-

ment of Post-graduate Study and Research. It was resolved that it was desirable that a degree should be instituted carrying the title of Doctor (**Ph.D.**, **D.Phil.** Oxford), obtainable by graduates of British and foreign Universities after a course of advanced study and research. The conditions and regulations for such a degree were further considered at adjourned meetings held on May 10, 1918, Jan. 24, 1919, and March 14, 1919. All the Universities of the United Kingdom now confer the degree of Philosophiæ Doctor. Candidates entering upon a course of advanced study and research for the Ph.D. must be at least 21 (Birmingham, Bristol, Cambridge, Durham, Liverpool, Oxford, Wales, Reading, St. Andrews, Dublin—no minimum age); must ordinarily be graduates either of the University or of some other approved University; must have pursued their studies at a University or Universities for a period of at least 3 yrs. (Durham—2); must produce evidence of fitness for the proposed course of study and research. The course for the degree is 2 yrs.; at Cambridge, Liverpool, Reading, Aberdeen, Glasgow, St. Andrews and N.U.I., 3 yrs., which may under certain conditions be reduced to 2 yrs. Candidates on completion of research must present thesis and submit to oral examination on thesis. The degree is granted in any faculty in which the University is prepared to receive advanced students.

A candidate for the degree of Ph.D., as an External student of the University of London, must have graduated in the Faculty of Theology, Arts, Laws, Music, Science, Engineering, or Economics in this University not less than 2 academic yrs. previously.

Lambeth Degrees

Under the Peter Pence Act (25 Henry VIII. Chapter 21) the Archbishop of Canterbury has power to grant degrees which previous to the Reformation were obtained from Rome. The degrees generally conferred are those of D.D., Mus.Doc. and B.D.

Students

The number of full-time students in Universities and University Colleges in receipt of Treasury Grant is given in the Returns published by the University Grants Committee for the year 1936–37 as 49,689, including 11,354 women. To these must be added the students of the Irish Universities and of certain schools of the University of London not included in the Returns of the University Grants Committee, making a total of about 58,000. These statistics do not include the students of the institutions, other than Universities and University Colleges, in which professional education of university grade is given in Theology, Teaching, Agriculture, Mining, etc.; nor students reading privately for the external degrees of the University of London, for the Bar, etc. This makes comparison with statistics of other countries difficult, as does also the fact that the work of the higher forms of many of our secondary and public schools corresponds with the earlier stages of the work done in Colleges and collegiate departments of some foreign Universities, *e.g.* in America.

For information regarding admission as an undergraduate from home

and abroad and school examinations, *see* Appendix I. For recognition of study at other Universities—(*a*) as undergraduates, *see* Appendix I.; (*b*) as graduates, *see under* the several Universities and Appendix I. For fees and other charges, *see under* the several Universities. For student organizations, *see* Appendix VI.

Scholarships

Few countries offer a richer variety than Great Britain of facilities for access to the highest forms of education. The lead of the "pious founder" has been followed by city companies and professional bodies, and, since the Education Act of 1902 brought higher education within the purview of Local Authorities, by the State. The response to the principle which found expression in the words of Mr. Fisher's Education Act of 1918 that "children and young persons should not be debarred by inability to pay fees from receiving the benefits of any form of education by which they are capable of profiting" has been so remarkable that L.E.A.'s are now assisting more students to take courses at Universities than they were helping to obtain Secondary education before the Act of 1902 was passed. From the grant-aided Secondary Schools of the country alone, with their 484,676 pupils (on Oct. 1, 1937), 225,287 of whom were free pupils, a fairly steady stream of students, averaging some 4000 over the last four years, more than 67 per cent. of whom were previously educated in Public Elementary Schools, passes each year to the Universities and University Teachers' Training Departments. The number of scholarships available and their variety, as regards conditions of tenure, put any attempt to give a comprehensive list out of the question. Those in search of assistance should apply for their Local Education Authority's Scholarship Handbook.* The main agencies in England and Wales by which scholars are assisted to attend Universities may be classified in the order of the probable number of awards made and the annual expenditure incurred: (1.) *Local Education Authorities.* The majority of awards are given to candidates who have done good work in College Scholarship and the Higher School Certificate Examinations, though some Authorities hold examinations of their own or grant assistance upon a consideration of school records. The expenditure of L.E.A.'s for 1936–37 in aid to students at Universities was £336,000 (approx.). (ii.) *"Open" Scholarships awarded by the Universities or their individual Colleges.* A brief notice of scholarships open to graduates will be found in the general information regarding each University. No particulars are readily available to show the total number of entrance scholarships and exhibitions awarded annually. In 1936-37, 762 awards were made by Oxford and Cambridge. (iii.) *State Scholarships.* About 360 are now awarded annually by the Board of Education to boys and girls in full-time attendance at Secondary Schools, on the recommendation of the Bodies that conduct the Higher

* Some of the Scholarship Handbooks, *e.g.* that published by the London County Council (P. S. King & Son, Ltd., 14 Gt. Smith St., Westminster, S.W.1, price 3d.), include a great deal of information in regard to general sources of assistance open to the whole country, as well as that available for persons resident in a particular area.

Certificate Examinations. The scholarships are tenable by students reading for an Honours degree. Analyses of these awards and the courses and degrees taken will be found in the statistical information published annually by the Board of Education. The expenditure upon State scholarships during the financial year ended March 31, 1938, was £129,324. (iv.) *Leaving Scholarships and Exhibitions awarded by Endowed Schools.* The expenditure upon such awards in the year 1936–37 was £48,388 incurred by 225 of the 475 Endowed Schools on the grant list of the Board. To these must be added over 100 of the 392 Schools recognized as efficient by the Board, but not on the grant list, for which figures are not readily available. (v.) *Charities unattached to Schools, but with power to offer Exhibitions under their Instruments of Government.* The number of educational charities in the country is extremely large. Information in regard to scholarships available in any particular area can usually be obtained by application to the L.E.A. Some of the larger funds open to the whole country are indicated in App. II. Further particulars will be found in the Annual Charities Register and Digest. It should be understood that assistance is often accorded from complementary sources. The holder of a Major Scholarship of a L.E.A. may, for instance, also hold a State Scholarship or College award, or possibly (with an upward limit of the total amount) all three.

In Ireland conditions are similar. For Scholarships in Scotland, *see* pp. 354–6 and Appendix II *passim*.

Adult Education

University Extension Courses have been promoted by the Universities of Cambridge, Oxford and London for the last 60 years. At Cambridge they were known as local lectures and were initiated in 1873. Oxford and London took up the work soon afterwards, and since then the other Universities and University Colleges have followed suit. These courses number several hundreds and vary in length from 6 to 25 lectures. In 1926 the Universities Extra-mural Consultative Committee was established to consider, especially from the point of view of administration, the many aspects of extra-mural work now undertaken by the Universities, and to contribute towards the formation of a common policy. Each University and independent University College of England and Wales is represented by one member, generally the chief executive officer of the Extra-mural Department, and certain persons are co-opted. An Annual Report is printed giving a tabular statement of University Extension Courses and other activities of University Extra-mural Departments.

In 1903 *The Workers' Educational Association* was founded. In 1907 relations were established with Oxford University. Since that date relations have been established with all the Universities and University Colleges, and there are joint committees composed of representatives of the University or College and the W.E.A., which promote Preparatory Classes, Three-Year Tutorial Classes, Advanced Tutorial Classes, Vacation Courses, etc. Most of these classes and courses are recognized by the Board of Education for purposes of grant under Chapter II. of the Adult Education Regulations.

The *Adult Education Committee* was appointed by the President of the Board of Education, in April 1921, to promote the development of liberal education for adults, and in particular to bring together national organizations concerned with the provision of adult education, so as to secure mutual help and prevent overlapping and waste of effort; to further the establishment of local voluntary organizations for the purpose and of arrangements for co-operation with Local Education Authorities; and to advise the Board of Education upon any matters which the Board might refer to the Committee. It has been reappointed by successive Presidents. It includes representatives of all Universities in England and Wales, and of the principal voluntary organizations engaged in the work of Adult Education; also four representatives of Local Education Authorities. Assessors are appointed by the Board of Education, the Admiralty, the Army Council and the Air Ministry. Since 1921 the Committee has been engaged on many inquiries, and their Reports have been published by H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2. The more recent are: No. 6—The Drama in Adult Education. (1s.) No. 7—Full-time Studies. (6d.) No. 8—Natural Science in Adult Education. (6d.) No. 9—Pioneer Work and other Developments in Adult Education. (6d.) No. 10—The Scope and Practice of Adult Education. (1s. 6d.) No. 11—Adult Education and the Local Education Authority. (2s. 6d.)

The *British Institute of Adult Education*, 29 Tavistock Square, London, W.C.1, is a central co-ordinating body on adult education. Its work includes research into problems connected with the movement and investigation of new methods of progress. The Institute arranges an Annual Conference at which are represented: Local Education Authorities, Universities, Voluntary Associations and the Board of Education.

Publications. *Adult Education*—a quarterly review of adult education in England (issued Sept., Dec., March and June, 4s. 6d. p.a. post free). *Life and Leisure Pamphlets*, 6d. each, still available: 2. The Sociological Background of Adult Education in Rural Districts. 3. London Men and Women. 5. What is a Painting. 7. Education for an Age of Plenty. 8. The Teaching of Literature in the W.E.A. 9. Newbattle Abbey College and what it is accomplishing. 10. Community Centres.

Committee of Vice-Chancellors and Principals

In May 1918 Mr. Balfour summoned at the Foreign Office a Conference of representatives of all the Universities for the purpose of putting before them a proposal that on the invitation of the Government of the United States a Universities' Mission should be sent to America. At this meeting Mr. Balfour took the opportunity of pressing upon the Universities the desirability of establishing a representative body to which matters of interest to the Universities might be referred by Government Departments. He urged the necessity of the creation of "an organ of expression" which would voice the desires and aspirations of the British Universities and represent them in their relations with the Universities of other nations. At a subsequent meeting the Conference resolved that "it is desirable in the interests of the Univer-

sities and of the nation that steps be taken to promote co-operation and mutual consultation among the Universities of Great Britain and Ireland, and, further, that the Vice-Chancellor or Principal of each University or a deputy appointed by him, together with the Executive Committee of the Universities Bureau, be appointed a ' Standing Committee ' to consider any matters of common interest arising out of the proceedings of this Conference or submitted to it by the Government, and to report from time to time to the Conference."

The Standing Committee of Vice-Chancellors dealt with a number of subjects of common interest to the Universities, which are mentioned in previous issues of the *Yearbook*.

In 1929 the Standing Committee of Vice-Chancellors was dissolved and a Consultative Committee of Vice-Chancellors and Principals was established in its place, the members of which are appointed by the several Universities and by one of the three University Colleges in rotation. The deliberations of this Committee now cover all subjects of common interest to Universities ; in consequence, University Conferences, which had been held annually up to and including 1929, have been discontinued.

The Universities Bureau acts as the Secretariat of the Committee of Vice-Chancellors and Principals.

The subjects discussed by the Committee during the year 1937–38 are to be found in the Annual Report of the Executive Council of the Universities Bureau, v. pages xxx–xlv.

Parliamentary Representatives of Universities

Oxford	A. P. Herbert, M.A. ; Sir J. Arthur Salter, .K.C.B., M.A., D.C.L., LL.D., Com. Lég. d'H.
Cambridge	Sir J. J. Withers, C.B.E., M.A., LL.D. ; K. W. M. Pickthorn, M.A., Litt.D.
London	Sir Ernest G. G. Graham-Little, B.A., M.D., F.R.C.P.
Birmingham, Bristol, Durham, Leeds, Liverpool, Manchester, Sheffield, Reading	Miss Eleanor Rathbone, M.A., LL.D., D.C.L. ; T. Edmund Harvey, M.A.
Wales	Ernest Evans, B.A., LL.B.
Scottish Universities	G.A. Morrison, M. A., LL. D. ; J.Graham Kerr, M.A., LL.D., F.R.S. ; Rt. Hon. Sir John Anderson, G.C.B., G.C.S.I., G.C.I.E., M.A., B.Sc., LL.D.
Belfast	In the Parliament of the United Kingdom—Col. T. Sinclair, C.B., M.D., F.R.C.S. In the Parliament of Northern Ireland —Rev. Prof. R. Corkey, M.A., Ph.D. ; J. C. McDermott, K.C. ; Lt.-Col. A. B. Mitchell, O.B.E., M.B., B.Ch., B.A.O., F.R.C.S.I., D.L. ; Howard Stevenson, F.R.C.S.I.

UNIVERSITY OF BIRMINGHAM

Founded 1900

VISITOR—H.M. THE KING.

CHANCELLOR—THE VISCOUNT CECIL OF CHELWOOD, M.A., D.C.L., LL.D., K.C.

PRO-CHANCELLOR—E. P. BEALE, M.A.

DEPUTY-PRO-CHANCELLOR—Alderman W. BYNG KENRICK.

TREASURER—Alderman S. J. GREY.

VICE-CHANCELLOR AND PRINCIPAL—R. E. PRIESTLEY, M.C., M.A. Camb. and Birm., D.Sc. Melb.

VICE-PRINCIPAL—Prof. J. G. SMITH, M.A. Dub., M.Com.

REGISTRAR—D. J. CAMERON, M.A. Ox., Edin. and Birm.

SECRETARY—C. G. BURTON, M.Com., F.C.I.S.

LIBRARIAN—W. BONSER, B.A., Ph.D. Lond.

SENIOR TUTOR TO WOMEN STUDENTS—JANE J. MILNE, M.A., D.Litt.

Telephone: Registrar—Birmingham, Selly Oak 1181–6.
Secretary—Birmingham, Central 8541–4.

TEACHING STAFF

Accounting and Administration

Cousins, D., B.Com., A.C.A. Reader.

Anatomy

..... Prof.

Smout, C. F. V., M.B., Ch.B., L.R.C.P., M.R.C.S. Lectr. and Demr.

Brandt, W., M.D. Würzburg. Lectr.

Lectrs. in Applied Anatomy

Rose, Baron T., B.Sc., M.B., Ch.M., F.R.C.S. Eng. and Edin.

Brenner, O., M.D., M.R.C.P.

Connell, J. S. M., L.R.F.P.S. Glas., F.R.C.S.Ed.

Brailsford, J. F., M.D., Ch.B., Ph.D., M.R.C.P., M.R.C.S. (Living A.) Radiol. Demr.

Art (Fine Arts)

Bodkin, T., D.Litt. N.U.I., Litt.D. Dub., M.A., M.R.I.A., Chev. Lég. d'H. Barber Prof.

Sexton, E., M.A. Princeton. Hon. Lect.

Bio-Chemistry, v. Physiol.

Botany

Stiles, W., M.A., Sc.D. Camb., M.Sc., F.R.S. Mason Prof.

Chesters, C. G. C., B.Sc. Glas., M.Sc., Ph.D. Lectr.

Rees, W. J., B.Sc., Ph.D. Lectr.

Skelding, A. D., B.Sc. Lond. Asst. Lectr.

Brewing, etc., v. Malting and Brewing

Chemistry

Haworth, W. N., D.Sc. Manc., Ph.D. Gött., D.Sc. Zür. T.H., M.Sc., F.R.S., N.L. Mason Prof.

Carter, S. R., D.Sc., F.I.C. (Physical C.) Snr. Lectr.
Johnson, C. H., B.Sc., Ph.D. Lond. Snr. Lectr.

Lecturers
Wood, C. E., M.Sc., A.I.C.
Nicholas, S. D., B.A. Ox., A.I.C.
Pinkard, F. W., M.Sc. Wales, A.I.C.
Hickinbottom, W. J., D.Sc., Ph.D., A.I.C.
Cox, E. Gordon, D.Sc. Bristol, F.Inst.P.
Porter, C. R., Ph.D. Lond.
Peat, S., B.Sc. Durh , Ph.D.
Stacey, M., B.Sc., Ph.D., A.I.C.
Smith, F., B.Sc., Ph.D. Asst. Lectr.

Classics
Thomson, J. Oliver, O.B.E., M.A. Birm. and Aberd., B.A. Camb. (Latin) Prof.
Thomson, G., M.A. Birm. and Camb. (Greek) Prof.
Austin, R. P., B.A. Lond. and Reading, B.Litt. Ox. (Ancient Hist. and Archæol.) Reader.
Hirst, Margaret E., M.A. Birm. and Camb. Lectr.
Bachtin, N., Ph.D. Camb., L.-ès-L. Paris Asst. Lectr.

Commerce, v. also Acc., Fin.
Florence, P. Sargant, M.A. Camb., Ph.D. Columb., M.Com. Prof.

Commercial Law [Prof.
Goitein, H., LL.D. Lond., M.Com.

Dentistry, v. *infra*

Education
Valentine, C. W., M.A. Birm. and Camb., D.Phil. St. And. Prof.
Braddock, A. P., M.A., B.Sc. Lond. Hd. of Men's Divn.
Hammond, Marjorie, M.A. Camb., Hd. of Women's Divn.

Lecturers
Chapman, A. E., M.A. Camb.
Austin, Frances M., M.Sc.
Buchanan, Freda M., M.A. Edin.
Simpson, Lilian E., B.A.
Cull, E. C., B.Sc. Lond.
MacFarlane, Nancy A., M.A. Ox.
James, B. C. L., M.A. Ox.
Sturt, Mary, M.A. Ox., Ph.D.
Tait, Elizabeth W., M.A. Edin.
David, Ethel, M.A. Camb.
Thorburn, A., M.A. Edin.
Cox, Christabel.
Weitzman, Sophia, M.A., Ph.D. Manc.
Hookins, Doris I., B.Sc. Liv.
Pearson, Nina, B.Mus.
Philip, Lucy, Bergman Osterberg Phys. Tg. Coll. Asst. Lectr.

Medical Officers
Jordan, W. R., M.D.
Braid, Frances, M.D. St. And., M.R.C.P.

Engineering, Civil
Batho, C., B.Eng. Liv., D.Sc. McGill, M.Sc., M.I.C.E., M.I.Struc.E. Beale Prof.
Panton, R. C., M.A., M.A.I. Dub., M.Sc., M.I. Struct. E. Pt.-time Lectr.
Veal, T. H. P., B.Sc. Brist. Lectr.
Coultas, H. W., B.Sc. Leeds, M.Sc. Lectr.
Matheson, J. Louis, M.Sc. Manc. Lectr.
Haywood, W., F.R.I.B.A. (Town Planning) Lectr.

Engineering, Electrical
Cramp, W., D.Sc. Manc., M.Sc., M.I.E.E. Prof.

Lectrs.
MacElwee, N. M., B.Sc. (Mining Elec. Eng.)
Jarvis, A. P., M.Sc.
Greig, J., M.Sc.
Pohl, R., D.Eng. Hanover.

Engineering, Mechanical

Lees, S., M.A. Camb., M.Sc., M.I.M.E., M.I.A.E. Chance Prof.
Ellis, S. J., M.Sc. Lectr.
Boden, F. H., B.Sc. (Machine Design) Lectr.
Sandifer, D. A. N., B.Sc. Lond., M.Sc. Lectr.
Riffkin, J., B.Sc. Glas., Ph.D. (Machine Design) Lectr.

English

Hughes, A. M. D., M.A. Ox. and Birm. (to 30.9.39) Prof.
Buchanan, Freda M., M.A. Edin. Lectr.
Waterhouse, J. F., M.A. Ox. Lectr.
MacFarlane, Nancy A., M.A. Ox. Lectr.
Robertson, Agnes J., M.A. St. And., Ph.D. Camb. (E. Lang.) Lectr.
Gardner, Helen, M.A. Ox. Lectr.
Shapiro, I. A., M.A. Lectr.
Duncan-Jones, Elsie, M.A. Camb. Pt.-time Lectr.

Finance

Smith, J. G., M.A. Dub., M.Com. Mitsui Prof.
Court, W. H. B., M.A. Camb. and Harv. (Econ. Hist.) Lectr.
Walker, G. J., B.A. Ox. (Econ.) Lectr.

Fine Arts, v. Art

French

Ritchie, R. L. Graeme, D.Litt., LL.D. Aberd., D. de l'U. Paris, M.A., O.A., Chev. Lég. d'H. Prof.
Milne, Jane J., M.A. Edin., D.Litt. Lectr.
Tait, Elizabeth W., M.A. Edin. Lectr.
Walton, T., M.A. Manc., L. ès L., D. de l'U. Paris Lectr.
Knight, R. C., M.A. Ox. Lectr.
Le Barazer, Valentine, L. ès L. Bordeaux Asst. Colloquial French.

Geography

Kinvig, R. H., M.A. Liv. Reader.

Lectrs.

Pelham, R. A., M.A. Wales, Ph.D.
McPherson, A. W., B.Sc. Glas.
David, Ethel, M.A. Camb.

Geology and Mineralogy

Wills, L. J., M.A., Sc.D. Camb., Ph.D., F.G.S. Prof.

Lectrs.

Raw, F., D.Sc. Lond., F.G.S.
Marshall, C. E., B.Sc., Ph.D. Durh., F.G.S.
Lamont, A., M.A., B.Sc., Ph.D. Glas. Asst. Lectr.

German

Sandbach, F. E., M.A. Birm. and Camb., Ph.D. Stras. (to 30.9.39) Prof.
Strachan, L. R. M., M.A. Ox. Lectr.
Thorborn, A., M.A. Edin. Lectr.
Baier, C., M.A. Liv., Ph.D. Tübingen Lectr.

History

Hancock, W. K., B.A. Melb., M.A. Birm. and Ox. Prof.
Hawgood, J. A., M.A. Lond., Ph.D. Heid. (Med. and Mod. Hist.) Reader.

Lectrs.

Adams, H. P., M.A. Camb.
James, B. C. L., M.A. Ox.
Stephens, J. S., M.A. Camb.
Weitzman, Sophia, M.A., Ph.D. Manc.
Styles, P., M.A. Ox. (Local Hist.) Special Lectr.
Templeman, G., M.A. Lond., B.A. Asst. Lectr.

Italian [Serena Prof.

Richardson, Linetta de C., M.A.

Jurisprudence, v. Law

Law

Smalley-Baker, C. E., M.A. Birm. and Ox., LL.B. Harvard Barber Prof.
Campbell, A. H., M.A. Edin. and Ox., B.C.L. Ox., LL.M. (Jurisprudence) Barber Prof.
Hargreaves, A. D., M.A., LL.B. Camb. Reader.
Davies, D. J. Ll., M.A. Camb., LL.B. Wales Reader.
Pettitt, G. A. C. J.P. (Legal Ethics) Hon. Reader.
Camm, W. C. Lectr.
Grove, G. A., LL.M. Lectr. and Tutor.
Saxby, C. O., B.A. Ox., F.C.A. (Trust Accounts) Lectr.
Tilley, L. C., B.A., LL.B. Lectr. and Tutor.

Malting and Brewing and Industrial Fermentation Processes

Hopkins, R. H., D.Sc., F.I.C. Adrian Brown Prof.
Norris, F. W., B.Sc., Ph.D. Lond., D.Sc., A.I.C. Lectr.

Mathematics

Watson, G. N., Sc.D. Camb., D.Sc. Lond., M.Sc., F.R.S., F.R.A.S., F.I.P. (Pure M.) Mason Prof.
Peierls, R., M.A. Camb., D.Phil. Leipzig, D.Sc. Manc., M.Sc. (Applied M.) Prof.

Lectrs. [F.R.A.S.

Preece, C. T., M.A. Camb.,
Colomb, Ruby, M.A. Lond.
Calderwood, Nora I., M.A., B.Sc., Ph.D. Edin.
Lumsden, T. A., M.A., B.Sc. Edin., F.R.A.S.
Kuttner, B., M.A., Ph.D. Camb.

Medicine, v. *infra*

Metallurgy

Hanson, D., D.Sc. Liv., M.Sc. Feeney Prof.
Jones, J. W., M.Sc. Lectr.
Rollason, E. C., M.Sc. Lectr.
Wright, T., Ph.D. Sheff. Lectr.

Mining (Coal and Metal)

Moss, K. N., O.B.E., M.Sc., M.I.C.E., M.I.Min.E., F.G.S. Prof.
Garrett, J. G., B.Sc., M.I.Min.E. (Surveying) Lectr.
Hancock, W., M.Sc., Ph.D., F.G.S., M.I.Min.E. (Mine Rescue) Lectr.
Graham, J. K. L, A.R.S.M. (Metal M.) Lectr.
Ward, S. G., M.Sc., Ph.D. Lond. (Coal Treatment) Lectr.

Music

Hely-Hutchinson, V., M.A. Peyton and Barber Prof.
Blackall, A. K., Mus.D. Manc., B.Mus., F.R.C.O. Lectr.
Pearson, Nina, B.Mus. Lectr.

Oil Engineering and Refining

Nash, A. W., M.Sc., M.I.Mech.E., M.I.P.T., F.I.F. Prof.
Clark, L. V. Woodhouse, B.Sc. Manc., M.Sc. Lectr.
Hunter, T. G., B.Sc., Ph.D., A.R.T.C., A.I.C. Lectr.

Philosophy, Mental and Moral

Russell, L. J., M.A. Birm. and Glas., B.Sc., Ph.D. Glas. Prof.
Duncan-Jones, A. E., M.A. Camb., Ph.D. Lectr.
Whiteley, C. H., B.A. Ox. Asst. Lectr.

Physics

Oliphant, M. L. E., B.Sc. Adel., Ph.D. Camb., M.Sc., F.R.S. Poynting Prof.

Lectrs.

Barlow, G., D.Sc. Birm., Lond. and Wales, F.Inst.P.
Ibbs, T. L., D.Sc.
Young, J., B.Sc. Lond., A.R.C.S., F.R.A.S.

Dee, A. A., B.Sc. Lond., D.I.C., A.R.C.S.
Johnson, M. C., M.A. Camb., D.Sc., F.R.A.S.
Harrison, G. E., B.Sc., Ph.D.
Moon, P. B., M.A., Ph.D. Camb.

Physiology

Gilding, H. P., M.A., B.M., B.Ch. Ox., M.D. Prof.
Thorpe, W. V., M.A., Ph.D. (Chem. Physiol.) Reader.
Berry, J. L., M.B., Ch.B. Lectr.
Murphy, G. E., M.Sc., M.B., Ch.B. Lectr.
Williams, R. T., B.Sc., Ph.D. Wales (Biochem.) Asst. Lectr.
Walker, Hilda, M.B., Ch.B. Special Lectr.
Watson, R. W. Whitfield, M.B., Ch.B. Demr.
Jacoby, F., Ph.D., M.D., Res. Asst. (Tissue Culture) (Histol.) Asst. Lectr.

Russian

Konovalov, S., B.Litt. Ox., M.A. Prof.

Social Study

Braithwaite, Constance, B.Sc., Ph.D. Lond. Pt.-time Lectr. and Tutor.

Spanish

Conroy, R., M.A. N.U.I. Lectr.
Grant, Mrs. Helen F., M.A. Ox. Asst. Lectr.

Zoology and Comp. Anatomy

Fox, H. Munro, M.A. Camb., M.Sc., F.R.S. Mason Prof.
Newth, H. G., M.Sc., D.I.C. Lectr.
Gunn, D. L., B.Sc. Wales, Ph.D. Lectr.
Johnson, Minnie L., B.Sc., Ph.D. Lectr.

*** Medicine**

(for subjects of first 2 yrs.—Anat., etc., v. *supra*).

Dean :—A. Stanley Barnes, B.Sc., M.D. Lond., D.Sc., M.B., Ch.B., F.R.C.P.

Bacteriology

Shrewsbury, J. F. D., M.D., Ch.B. Liv., M.D., D.P.H. Prof.
Jones, R. E., B Sc., D.P.H., M.R.C.S., L.R.C.P. Lectr.
Laughton, Nancy, M.B., Ch.B., D.P.H. Lectr.
Mouat, Thelma, M.B., B.S. Durh. Lectr.
Palmer, F. P. Demr.

Ear, Nose and Throat, Diseases of

Woodman, E. M., M.S. Lond., F.R.C.S. Lectr.

Forensic M. & Toxicology

Lloyd, B. A., M.B., B.S. Lond., Ch.M., F.R.C.S. Prof.
Walker, C., B Sc., M.D. Lectr.

Hygiene and Public Health

Newsholme, H. P., M.A., M.D. Ox., B.Sc. Lond., M.D. (State Med.), F.R.C.P. Prof.
Auden, G. A., M.A., M.D., Ph.D., D.P.H. Camb., F.R.C.P. (Hygiene) Lectr.

Industrial Hygiene and Medicine

Collier, H. E., M.C., M.B., Ch.B. Edin. Reader.
Huggett, Esther, B.Sc., M.B., Ch.B. Leeds, M.R.C.P. Res. Worker and Lectr.

Infant Hygiene and Dis. of Children

Parsons, L. G., M.D. Lond., F.R.C.P. Prof.

Materia Medica, v. Therapeutics

* Exclusive of 65 clinical lecturers and tutors on the staffs of hospitals.

Medicine

Wynn, W. H., M.D. Lond., M.Sc., F.R.C.P. Prof.
Cloake, P., B.Sc., M.D. Lond. and Birm., D.P.H. Camb., F.R.C.P. Prof.
Bulmer, E., M.D. Edin., F.R.C.P. Lectr.
Neale, A. V., M.D., M.R.C.P. Asst. Lectr.

Mental Diseases

O'Reilly, J. J., M.B, B.Ch., B.A.O. Belf., D.P.M. Lectr.

Midwifery and Dis. of Women

Whitehouse, Sir H. Beckwith, M.S. Lond., Ch.M., F.R.C.S., F.C.O.G. Prof.
Lloyd, Hilda N., B.Sc., M.B., Ch.B., F.R.C.S., F.C.O.G. Snr. Lectr.
Barnie-Adshead, W. E., B.Sc., M.B., Ch.B., F.R.C.S. Eng. and Edin., M.C.O.G. Lectr
Danby, A. B., F.R.C.S.E., F.C.O.G. Lectr.
Selby Tait, F., M.B., Ch.B, F.R.C.S. Tutor.
Davidson, S, M.B., Ch.B. Edin., F.R.C.S.Ed. Tutor.

Ophthalmology

Hird, R. Beatson, M.D., F.R.C.S.E. Lectr.

Pathology

Wilson, G. H., M.B., Ch.B. Glas., M.D. (Path.) Prof.
McDonald, S., M.A., M.B., B.Ch. Camb., L.R.C P., M.R.C.S. Snr. Lectr.
Govan, A. D. T., M.B., Ch.B. Lectr.
Fisher, Evelyn M., B.A., M.B., Ch.B. Asst. Lectr.
Smallwood, W. Carey, M.B., Ch.B., M.R.C.P. Demr.

Pharmacology, v. Therapeutics

Radiology

Black, Harold, M.D. Belf., F.R.C.P. Lectr.

Surgery

Barling, S. G., C.M.G., M.B., B.S. Lond., Ch.M., F.R.C.S. Prof.
Gemmill, W., M.A., M.B., Ch.B. Edin., Ch.M., F.R.C.S. Prof.
Sampson, H. H., O.B.E., M.C., M.B., Ch.B., F.R.C.S. Lectr.
Debenham, R. K., M.A., M.D., F.R.C.S. Asst. Lectr.

Surgery, Operative

Raison, C. A., M.B., Ch.B., F.R.C.S. Lectr.

Surgery, Orthopædic

Dunn, N., M.A., M.B., Ch.B., LL.D., Aberd. Lectr.

Therapeutics

Wilkinson, K. D., O.B.E., M.D., F.R.C.P. Prof.
Smellie, J. M., M.D. Edin., F.R.C.P. Lectr.
Greenwood, F. R., M.D., B.S. Lond., M.R.C.S. (Mat. Med.) Lectr.

Dentistry

Humphreys, H. F., K.H.P., O.B.E., M.C., M.B., Ch.B., M.D.S. (D. Surg.) Prof.
Roberts, W. R., H.D.D., L.D.S. (Sp. Anat. of Teeth and Assoc. Parts) Lectr.
Youngson, A., L.D.S. (Dental Mechs. and Prosthetics) Lectr.
Broderick, R. A., D.S.O., M.C., M.B., Ch.B., M.D.S. (D. Bact.) Lectr.
Wellings, A. W., M.D.S. (Sp. Histol. and D. Path.) Lectr.
Stammers, A. F., L.D.S. (Sp. Histol. and D. Path.) Demr.
Parrott, A. H., O.B.E., M.D.S. (D. Mat. Med. and Therap.) Lectr.
Hanson, Prof. D., D.Sc. Liv., M.Sc. (D. Metall.) Lectr.

Bulmer, E., M.D. Edin., F.R.C.P. (Med. for D. Students) Lectr.

Cale-Matthews, G. F., B.D.S. (Orthod) Lectr.

Heather, J. C., M.D., M.R.C.P. (Pathol.) Lectr.

Roper-Hall, H. T., M.B., Ch.B., M.D.S., M.R.C.S., L.R.C.P., (Pathol.) Demr.

Debenham, R. K., M.A., M.D. Camb., F.R.C.S. (Surg. for D. Students) Lectr.

23 Clinical lecturers and tutors on staff of the Dental Hospital.

Huxley Lecturer

1939—Sir Albert Seward, Sc.D.

Muirhead Lecturer

1938—Prof. J. B. S. Haldane, M.A., F.R.S. (London Univ.)

William Withering Lecturer

1939—F Peyton Rous, Sc.D., M.D.

Ingleby Lecturer

1939—J. M. Smellie, F.R.C.P.

University Extension

Director of Extra-mural Studies, Tutor, Jt.-Sec. W.E.A.—B. I. Macalpine, M.A. Ox. Tutor and Jt.-Sec. W.E.A.—E. J. Studd. 26 other teachers.

AFFILIATED INSTITUTIONS

MIDLAND INSTITUTE. Students are admitted to Intermediate Arts examn. as Internal students.

HANDSWORTH AND LICHFIELD THEOLOGICAL COLLEGES. Students can take the 2nd, 3rd and Final yrs. for the B.A. partly in their own Colls. *Principals*—Handsworth : Rev. W. F. Lofthouse, D.D. ; Lichfield : Rev. E. H. Ward, M.A.

GENERAL INFORMATION

The University, formerly the Mason College founded by Sir Josiah Mason in 1880, was incorporated by Royal Charter in 1900. The Charter prescribes instruction in all branches of a liberal education, and such instruction especially as may be of service in the manufactures, commerce, and industrial pursuits of the Midlands. The Faculties of Arts and Law are still housed in the buildings of Mason College in the centre of the city ; the Faculties of Science and Commerce are in the main University buildings at Edgbaston opened in 1909. The Faculty of Medicine is housed in the Medical School on the Hospitals Centre site at Edgbaston, opened in July 1938.

FACULTIES : Arts, Commerce, Law, Science, Medicine. Deans : Prof. L. J. Russell, Prof. J. G. Smith, Prof. Smalley-Baker, Prof. K. Neville Moss, Dr. Stanley Barnes.

Departments of Education (training for teaching in primary, secondary, and other schools) ; Malting and Brewing and other Industrial Fermentation Processes ; Social Study. Connected with the Medical Faculty are a School of Dentistry and a Dept. of Industrial Hygiene and Medicine.

LIBRARY, about 250,000 vols. *Special Collections* : Sargant, rich in French economic literature of about 1830–1860 ; Collings, some 350 books on agric. and land problems ; Bunce, rich in nineteenth-century biography ; Corbett, county, especially Shropshire, history ; Holliday and others, art and architecture, large collection of musical works. MUSEUMS : Anat., Dent., Geol., Zool., Mining, Herbarium (Bot.), Path., Physiol.

LABORATORIES : Chemical (special organic, phys., electro-chem., ana-

lytical, and public health depts.); Physics, Biol., Engin., Metallurgy, Mining (exceptionally well equipped, expl. coal-mine), Oil Engin. and Refining (oil-boring plant, petroleum engineering being a speciality); Brewing; Power-station supplying whole Univ. with lighting, heat and power; Physiol.; Pathol.; Cancer Research; Research in Mental Disease; Bacteriol. A small OBSERVATORY is attached to the dept. of Physics. HOSPITALS (750 beds) available for clinics—Birmingham United (General and Queen's) and many special.

JOINT BOARD OF RESEARCH FOR MENTAL DISEASE (the University and City). *Director*—F. A. Pickworth, B.Sc., M.B., B.S. Lond., A.I.C.; 3 assts. The research work is carried on in the Medical School.

ADMISSION. See Appendix I.

DEGREES. B.A., B.Mus., M.A., M.Mus., D.Litt., D.Mus.; B.Sc. (in pure Science, in Engineering—Mech., Civ., Elec.; in Oil Engin. and Refining; in Industrial Fermentation; in Metallurgy; in Mining—Coal and Metal; Coal Utilisation), M.Sc., D.Sc.; M.B., Ch.B., B.D.S., M.D., M.D. (State Med.), Ch.M., M.D.S.; B.Com., M.Com.; LL.B., LL.M., LL.D.; Ph.D. (in any Faculty).

No degree can be obtained without attendance upon prescribed courses in the Univ. extending over at least 3 academic yrs. after matricn. except in the case of graduates of other approved Univs., who are, under certain conditions, admitted to the 1 yr. courses for the M.A. and M.Sc. and to 2 yr. courses for the B.Sc. (courses in technical subjects), B.Com., Ph.D. (v. p. 13), M.D., or Ch.M. B.A., with Honours, may be obtained in a Special School or in Grouped Subjects. (*a*) Special Schools: Classics, Engl., French, German, Italian, Spanish, Hist., Social and Polit. Science; Philos., Maths., Geog., Econ. (*b*) Various Groups, each of 3 subjects, have been approved by the Faculty of Arts (see p. 6).

There is an Honours School of Music in which B.Mus. (Hons.) can be obtained. Candidates must have satisfied the conditions for entry upon a degree course and must satisfy the Prof. of Music that they have a sufficient knowledge of the Theory of Music and an adequate power of performance on some musical instrument.

In the B.Com. courses one-third of the student's time may, if he chooses, be devoted to work in Applied Science. There is a 4 yrs.' B.Com. course for students entering at Inter. B.Sc. standard, the first 2 yrs. in the Faculty of Science and the remaining 2 yrs. in the Faculty of Commerce.

B.Sc. Honours in Pure Science (3 yrs.) may be taken in all subjects in the Faculty. There are Honour Schools in Math., Physics, Chem., Zool., Bot., Geol., Geol. with Geog., Anat., Physiol. In Applied Science the B.Sc. courses (Pass and Honours) in Engin., and in Oil Engin. and Refining, and Hons. Courses in Industrial Fermentation, in Mining and in Metallurgy cover 4 yrs. Those in Mining involve practical work underground. The B.Sc. course in Coal Utilisation extends over 3 yrs.

Subject to certain provisos, graduates of Oxford who have obtained the Oxford Diploma in Scientific Engin. and Mining Subjects are eligible for the B.Sc. degree in Engin., Mining or Metall., and graduates of Oxford with Hons. in the Final Honour School of Nat. Sci. (Eng. Sci.) or of Cambridge with 1st or 2nd class in Mech. Sci. Trip., are eligible for the B.Sc. degree in Mining after 2 yrs.' study at Birmingham.

Med. students may spend their first yr. at any school or schools of Med. recognized by the Univ., and the Senate may recognize examns. passed therein as exempting from the 1st Med. examn. They may obtain the B.Sc. as well as their Med. degrees by devoting 7 yrs. instead of 6 to study in the Univ.

The M.A., M.Com., M.Sc. and M.Mus. involve at least 1 yr. of study after completing the course for the bachelor's degree.

The M.A. may be taken in Educn. as well as in the ordinary Arts subjects.

The D.Litt., D Mus., D.Sc., or LL.D. may be taken 3 yrs. after the M.A., M.Mus., M.Sc. or LL.M., or 5 yrs. after the corresponding Bachelor's degree.

Advanced Standing. Candidates who, before admission, pass certain examns. of other approved Univs. and Examining Bodies may be permitted to take the final examn. for the B.Sc. (Hons.) at the end of their 2nd yr., and to do advanced or research work in their 3rd yr.

DIPLOMAS. *Education*, 1 yr. for graduates of approved Univs. or others equally qualified; *Psychology of Childhood*, 1 yr. for graduates and other approved persons; *Public Health*, 1 yr. for persons who have obtained a registrable qualification in Med., Surg. and Midw., at least two years previously; *Dentistry*, 6 yrs.; *Commerce*, 1 yr. for graduates of approved Univs. who have passed adequate test in accounting; *Social Study*, 2 yrs. for intending officials in national or municipal administration, welfare superintendents, philanthropic workers, etc.; Higher Diploma in *Social Study*, 1 yr. after ordinary Diploma for graduates and other approved persons; *Malting and Brewing*, 3 yrs., graduates, 1 yr.

A Joint *Coal-mining* Diploma of the Univs. of Oxford and Birmingham may be taken by Oxford graduates in Engineering who, after 4 months' practical experience in coal-mining, pursue courses covering one session in this Univ. Tuition fee, £60. A similar Joint Diploma of Camb. and Birm. is given.

CERTIFICATES. Primary Teachers (2 yrs. under Board of Education scheme), Malting and Brewing (2 yrs.).

RESEARCH. A joint standing committee of Senate and Council co-ordinates research work in all faculties, formulates policies of research, obtains funds, and co-operates with Govt. agencies and external bodies. Trust Funds amount to £30,970. There are special committees for research in Mental Diseases and in Cancer.

FEES. Matricn., £2. Membership fee, £3 : 3s. p.a. Tuition for B.A., £100; B.Sc., £75-£138 : 10s.; Engin., £190; Mining, £140; Metall., £140; Med., including Hospl. fees, £220 : 13 : 6; B.D.S., £296 : 16s.; L.D.S., £285 : 15 : 6; B.Com., £89; LL.B., £29. Examns., Interm. and Final, for first degree, £10, except B.A. and B.Sc. in Engin., £12 : 10s.; M.B., Ch.B., £20; B.D.S., £36 : 5s. L.D.S., £25. Laboratory research fees, £15 to £34 : 4s.

POSTGRADUATE AND RESEARCH SCHOLARSHIPS. 6 open to all Faculties; 17 in Sci.; 12 in Arts (1 of them reserved for Music); 2 in Com.; 3 in Law; also a Travelling Studentship (£300 for 1 yr.) biennially for research in Path.; 1 (£90) annually in one of the Facs. of Med., Com., or Law. Some of these are open to graduates of other Univs., but preference is always given to Birmingham graduates. For Fellowships and Research Studentships, v. also App. II.

RESIDENCE. For women there is a Hall of Residence—Univ. House, Edgbaston Park Rd. (Warden, Janet Carpenter, M.A.), with grounds of 2¾ acres. For men—Chancellor's Hall (Warden, R. C. Panton, M.A., M.Sc.), Augustus Road, Edgbaston (96 students), with grounds of 7 acres. The cost of board and lodgings is from £2 : 2s. upwards a week.

APPOINTMENTS BOARD. Secy.—The Registrar, The University, Edmund Street, Birmingham; Asst. Secy., W. P. Brooks.

In 1937–38, 173 full-time permanent posts were obtained through the Board and Staff. These included: Educational, 101; manufacturing and technical,

42 ; administrative posts in commerce and industry, 16. In addition 82 graduates and others were found temporary employment.

GUILD OF GRADUATES. Six representatives serve on the Univ. Court of Governors and one representative is a member of the Univ. Council. A *Register of Graduates* and a *News Letter* are circulated annually to all members.

UNIVERSITY EXTENSION work includes Lectures and Tutorial Classes in the city of Birmingham and the Midland area. The Tutorial Classes are under the control of a Jt. Committee of the Univ. and the W.E.A.

PUBLICATIONS. *Calendar* (Oct.), 2s. ; Faculty and Departmental syllabuses, Regulations for Higher Degrees and Postgraduate Diplomas (during the Summer Term) ; *Careers* in Science ; *Report of University Research Committee*, including a bibliography of the research work published during the session (Feb.) ; students' magazine, the *Mermaid.*

THE YEAR 1937–38

BENEFACTIONS. The following are the chief items : Lord Nuffield, £60,000 for new Physics Block ; A. E. Hills, £25,000 for post-graduate scholarships ; Thos. Carlyle (on account of bequest), £14,602 : 6 : 3 for Mechanical Engineering ; W. G. Grenville (on account of bequest), £15,000 for general purposes. Medical School : on account of Hospitals Centre General Appeal, £30,000, Sir William Waters Butler, £10,000 ; Exors. of O. C. Hawkes, £1393 : 5s. (balance of bequest) ; Stanley Barnes, £1113 : 7 : 9 ; Walter Barrow Trust, £1111 ; W. A. Cadbury Trust, £1000 ; Hospital Contributory Scheme Assocn., £1000 ; Exors. of Herbert Everill, £500 ; Lord Perry, £500 ; J. M. Nicholson, £250 ; E. Gilbert Bark, £105 ; C. H. Howkins, £100 ; H. T. Roper Hall, £100 ; H. A. Dugard, £100. Lewis's Ltd., £100 for general purposes. Anonymous Trust, £200 for Geography Dept. Contributions to Dept. of Industrial Hygiene and Medicine for term of yrs. amounting to about £1900 p.a. Contributions to equipment of Chemistry Block, about £1000.

NEW BUILDINGS. Work on Barber Institute of Fine Arts completed. New Hospitals Centre and Medical School opened in July 1938 and now in full use. Plans are in preparation for an extension to the Department of Physics and for a new Gymnasium.

OTHER DEVELOPMENTS. A scheme for Physical Education is under full consideration with a view to a new department being opened at the beginning of session 1939–40.

EXTRA-MURAL WORK. The Joint Committee of University and W.E.A. continues to extend and consolidate its work in Birmingham and adjoining counties. A successful summer school was held.

VISITORS TO THE UNIVERSITY. Among those who lectured were : Prof. Gilbert Murray, "Liberality and Civilisation" (2 lectures) ; Prof. Sir W. Holdsworth (Oxford), "The Renaissance, the Reformation and the Reception of Roman Law" ; Prof. J. B. S. Haldane (London—Univ. Coll.), "The Marxist Philosophy and the Sciences" (6 lectures) ; Prof. H. Hale Bellot (London—Univ. Coll.), "Recent Advances in the Interpretation of American History" (6 lectures) ; Miss A. E. Adams, "A Regional Study of the Austro-German Frontier Zone" ; Mr. H. J. Manzoni, "Industry as a Factor in Town and Country Planning" ; Mr. H. L. Keay, "Housing, Slum Clearance and Redevelopment by the Local Authority" ; Mr. Wesley Dougill (Liverpool), "Regional Planning in England," "Planning in Foreign Countries" ; Mr. E. H. Ford, "Modern City Development, with special reference to Coventry" ;

Mr. A. A. Barnes, "Birmingham's Water Supply: its Source and Distribution"; Mr. H. C. Whitehead, "The Work of the Birmingham Tame and Rea District Drainage Board"; Mr. F. Greenwood, "The Preparation and Administration of Planning Schemes"; Mr. S. Pointon Taylor, "Town Planning Team Work"; Mr. Leslie Halward, "The Short Story"; Mr. K. G. Grubb, "The Civilisation of Mexico"; Mr. R. Ellis Roberts; Prof. Conrad Gill, "Social Life in Seventeenth-Century England"; Mrs. Dobson, "The Use of Wireless in Schools"; Dr. E. C. Bullard, "Geophysical Measurements at Sea"; Sir John Russell (Rothamsted), "From the Russian Steppe to Ararat"; Emeritus Prof. E. de Selincourt (Belfast), "Literature and Science."

HONORARY DEGREES. *LL.D.*—The Rt. Hon. Viscount Nuffield; Sir Cuthbert Sidney Wallace (President of the Royal College of Surgeons); Sir Edward Mellanby (Secretary, Medical Research Council); Robert Hutchison (President, Royal College of Physicians); Harry Vincent (Treasurer, Hospitals Centre Executive Board); Sir Bertram Joseph Tottey Ford (President, Hospitals Contributory Schemes Association).

STUDENTS. Full-time: 1404, including 172 graduates. Part-time: 147, including 28 graduates.

DEGREES. B.A., 75; M.A., 15; B.Mus., 3; B.Com., 17; M.Com., 2; LL.B., 22; LL.M., 1; B.Sc., 86; M.Sc., 11; D.Sc., 4; M.B., Ch.B., 36; M.D., 3; M.D.S., 1; Ph.D., 16.

UNIVERSITY OF BRISTOL

Founded 1909

VISITOR—H.M. THE KING.

CHANCELLOR—The Rt. Hon. WINSTON S. CHURCHILL, C.H., LL.D., M.P. (*ex officio* President of Court, Council and Convocation).

PRO-CHANCELLORS—STANLEY H. BADOCK, LL.D.; The Rt. Hon. LORD DULVERTON OF BATSFORD, O.B.E., M.A. Ox., J.P.; The Rt. Hon. THE VISCOUNT BLEDISLOE, P.C., G.C.M.G., D.Sc.; The Most Hon. THE MARQUESS OF BATH, K.G., P.C., C.B.

VICE-CHANCELLOR—THOMAS LOVEDAY, M.A. Ox., LL.D.

PRO-VICE-CHANCELLOR—Prof. J. F. DOBSON, M.A. Camb.

TREASURER—STANLEY H. BADOCK, LL.D.

LIBRARIAN—W. L. COOPER, M.A. Ox.

SECRETARY AND REGISTRAR—WINIFRED SHAPLAND.

BURSAR—I. FOX.

Telephone: Bristol 23146 and 21744.

TEACHING STAFF

Agriculture, v. also Associated Instns.

Barker, B. T. P., M.A. Camb. (A. Biology) Prof.
Boutflour, R., M.Sc. Durh. Prof.

Anatomy

Whitnall, S. E., M.A., D.M., B.Ch. Ox., M.R.C.S., L.R.C.P., F.R.S. Can. Prof.
Moore, C. A., M.S., M.B. Lond., Ch.M., F.R.C.S. (Surg. and Applied Anat.) Lectr.
Llewelyn, Gwladys R., M.Sc., M.B., Ch.B. Lectr.
Parkes, A. R., M.B., Ch.B. Edin. Lectr.
Stock, W. S. V., M.B., Ch.B., F.R.C.S. Demr.

Aramaic, etc., v. Orient. Langs.

Bio-Chemistry, v. also Assoc. Instns.

Nierenstein, M., Ph.D. Berne, D.Sc. Geneva. Reader.

Botany, v. also Assoc. Instns.

Skene, MacG., D.Sc. Aberd. Melville Wills Prof.
Bracher, Rose, M.Sc., Ph.D. Lectr.
Campbell, A. H., B.Sc., Ph.D. Edin. Lectr.
Yemm, E. W., B.A., D.Phil. Ox. Lectr.
Hutchinson, S. A., B.Sc. Grad. Demr.
1 Recogd. Teacher in Gardening.

Chemistry, v. also Assoc. Instns.

Hirst, E. L., M.A., D.Sc. St. And., F.R.S. A. C. Pass Prof.

Davis, O. C. M., D.Sc. Lond., D.Sc., M.D., Ch.B., M.R.C.P. (Med. C.) Reader.

Lecturers

Rixon, F. W., M.Sc. Manc., Ph.D. Gies., M.A., F.I.C.

Malkin, T., D.Sc. Lond., Ph.D. Manc.

Maxted, E. B., D.Sc. Lond., Ph.D. Berl., F.I.C. (Catalysis).

Jones, J. K. N., B.Sc., Ph.D. Birm. Asst. Lectr.

Randles, J. E. B., B.Sc. Lond. Asst. Lectr.

Young, G. T., B.Sc. Birm. Asst. Lectr.

King, Annie M., Ph.D. Research Asst.

Chemistry, Physical

Garner, W. E., M.Sc. Lond., D.Sc. Birm. F.R.S. Leverhulme Prof.

Bawn, C. E. H., Ph.D. Lectr.

Dunning, W. J., B.Sc. Liv. Asst. Lectr.

Classics [H. O. Wills Prof.

Dobson, J. F., M.A. Camb. (Greek)

Beare, W., M.A. Dub. (Latin) Prof.

Eichholz, D. E., M.A. Camb. Lectr.

Phillips, E. D., M.A. Ox. Asst. Lectr.

Dentistry, v. *infra*

Domestic Science, v. also Assoc. Instns.

Whitaker, Ruth Lectr.

Eland, Grace M. (Dom. Econ.) Lectr.

Economics

Whyte, W. H., M.A. Leeds Prof.

Tout, H., M.A. Ox. Lectr.

Shannon, H. A., B.Com.Sc. Belfast, B.Sc. Econ. Lond. Temp. Lectr.

Magee, B., B.Com. Lond. (Accountancy) Lectr.

Education, v. also *infra* Assoc. Instns.

Foster, T. S., M.A. Ox., F.R.A.I., Master of Method, Director of Training Reader.

Lecturers

Whitwill, Gladys C., M.A.

Childs, E. C., M.A., B.D. Lond.

Pilley, J. G., M.A. Ox.

Warrell, A., M.A., F.R.C.O. (Music).

Burch, Enid G., M.A. Camb.

Pye, Margaret W., B.A., Ph.D. Lond.

Green, T. L., B.Sc. (Hyg.).

Jarman, T. L., M.A., B.Litt. Ox., A.M. Harv.

Nixon, Doreen G. C., M.B., B.S. Lond., M.R.C.S., L.R.C.P. (Hyg.) Recogd. Teacher.

Skinner, F. (Art) Recogd. Teacher.

Engineering, v. *infra*

English [Winterstoke Prof.

Crofts, J. E. V., B.A., B.Litt. Ox.

Birkhead, Edith, M.A. Liv. Lectr.

Needham, H. A., M.A. Birm., D. de l'U. Paris Lectr.

Tucker, Susie I., M.A. Ox. Lectr.

French, v. also Engin.

Boillot, F. F., M.C., C.G., M.A. Sheff., L. ès L. Paris Prof.

Warne, F. J., B.A. Lond. Lectr.

Gould, S. C., B.Litt. Ox., B.A. Lectr.

Fréchet, A. L. G. Lecteur.

Geography

Jervis, W. W., D.Sc. Durh. Prof.

Kendall, O. D., M.A. Camb. Lectr.

Jones, S. J., M.A. Wales Lectr.

Walker, F., M.A. Liv. Asst. Lectr.

Geology

Whittard, W. F., B.Sc. Lond., Ph.D. Lond. and Camb. C. Wills Prof.

Turner, H. W., M.A. Ox., F.G.S. Lectr.

Smith, S., M.A. Camb., D.Sc. Durh. Lectr.
Wallis, F. S., D.Sc., Ph.D. (Sedimentary Petrol.) Sp. Lectr.
Ashby, D. F., B.Sc. Lond. Asst. Lectr.

German, v. also Engin.

Closs, A. M., M.A., D.Phil. Graz. Hd. of Dept., Reader.
Barber, C. C., M.A. Ox., D.Phil. Giessen Lectr.

History [Prof.

Mowat, R. B., M.A., D.Litt. Ox.
MacInnes, C. M., M.A. Ox. (Imperial H.), Reader.
James, R. I., M.A. Ox. Lectr.
Butcher, Emily E., M.A. Lectr.
Barger, E., B.A. Ox. Asst. Lectr.

Law

Lewis, M. M., M.C., M.A., LL.B. Camb. Prof.
Veale, E. W. W., LL.D. Lond. Lectr.
Wilshere, A. M., M.A. Ox., LL.B. Lond. (Comml. L.) Lectr.
Bain, K., LL.B. Lond. Lectr.
Green, J. Sp. Lectr.
Forrest, G. A., B.A. Ox. Asst. Lectr.

Mathematics, Applied

Shepherd, W. M., D.Sc. Lond. Lectr.
Newing, S. T., B.Sc. Lond., A.R.C.S. Lectr.

Mathematics, Pure

Hassé, H. R., M.A. Camb., D.Sc. Manc. H. O. Wills Prof.
Fraser, P., M.A. Camb., M.A., B.Sc. Aberd. (Geom.) Reader.
Todd, H., B.A. Camb. Lectr.
Vint, J., M.A. Belf. Lectr.
Linfoot, E. H., D.Phil. Ox. Lectr.

Medicine, v. *infra*

Metallurgy, v. Engin.—Chem. and Metall.

Military Subjects

Ray, W. H. B., Capt., The Dorsetshire Regt. Sp. Lectr.

Mining, v. Engin.

Music, v. Educn.

Oriental Languages

O'Leary, De L., M.A., D.D. Dub. (Aramaic and Syriac). Sp. Lectr.

Philosophy [Prof.

Field, G. C., M.A., D.Litt., B.Sc. Ox.
Carré, M. H., M.C., M.A. Ox. Lectr.
Macleod, J. Winifred, M.A. Glas., B.Litt. Ox. Sp. Lectr.

Physics, v. also Chem., Physical

Tyndall, A. M., D.Sc. Lond. and Brist., F.R.S., F.I.P. H. O. Wills Prof.
Mott, N. F., M.A. Camb., F.R.S. (Theoret. P.) Melville Wills Prof.
Skinner, H. W. B., M.A., Ph.D. Camb. (Spectrosc.). H. H. Wills Research Fellow and Lectr.
Jackson, L. C., M.Sc. Lond., Ph.D. Leiden H. H. Wills Research Fellow.
Piper, S. H., D.S.O., D.Sc. Lond., F.I.P. Reader.

Lecturers

Williams, Illtyd, M.Sc. Wales.
Sucksmith, W., D.Sc. Leeds.
Potter, H. H., Ph.D. Lond., B.Sc.
Powell, C. F., B.A., Ph.D. Camb.
Thompson, N., B.Sc. Ph.D., Sheff.

Research Assts.

Appleyard, E. T. S., M.A., Ph.D. Camb.
Burch, C. R., B.A. Camb., Ph.D. Lond.

Gurney, R. W., M.A., Ph.D. Camb.
Harper, W. R., M.A., Ph.D. Camb.

Physiology

Brocklehurst, R. J., M.A., D.M., B.Ch. Ox. Prof.

Lecturers

Wiltshire, Marion O. P., D.Sc.
Ashford, C.A., M.A., Ph.D. Camb.
1 Recognized Teacher in Psychol.

Theological Subjects

For Univ. Staff v. *infra* Assoc. Instns.

Zoology

Yonge, C. M., D.Sc. Edin. Prof.
Sloane, J. F., B.Sc. Glas. Lectr.
Kitching, J. A., M.A. Camb., Ph.D. Lond. Lectr.
Jenkin, Penelope M., M.A. Camb. Lectr.
Matthews, L. H., M.A. Camb. Sp. Lectr.
Tetley, H., B.Sc. Leeds Sp. Lectr.
Spalding, J. F., B.Sc. Lond. Asst. Lectr.
Bassindale, R., M.Sc. Sheff. Temp. Asst. Lectr.

Engineering

In the Technical College of the Society of Merchant Venturers—Principal of the College and Dean, Fac. of Engin., Prof. A. Robertson, D.Sc. Edin., M.I.Mech.E., M.Inst.C.E., F.R.Ae.S.

Chemistry and Metallurgy

Dearden, W. H., M.Sc. Manc. Lectr.

Civil Engineering

Baker, J. F., M.A. Camb., D.Sc. Wales. Prof.
Gibbs, E. F., Ph.D. Lond. Lectr.
Elgood, W. N., B.Sc. St. And. Lectr.

Drawing

Mountney, C. F. Instr.

Electrical Engineering

Robertson, D., D Sc. Glas., M.I.E.E. Prof.
Holmes, S. Lectr.
Chard, F. de la C., M.Sc. Lond. Lectr.

Mechanical and Mining Engineering

Robertson, A. (v. *supra*) Prof.
Watson, F. R. B., B.Sc. Edin. (Mech. E.) Lectr.
Morrison, J. L. M., B.Sc. (Mech. E.) Lectr.

French and German for Engin. Students [Asst. Lectr.

Bennett, Edith, M.A. Birm.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Corfield, C., M.D. Durh. Lectr. (C.).
Moore, L.A., M.B., Ch.B., M.R.C.S., L.R.C.P. (C.).
Logan, H. B., M.R.C.S., L.R.C.P. Tutor.
Bradbeer, E. G., M.B., Ch B. Tutor.
4 Recognized Teachers.

Bacteriology, v. Pathology

Diseases of Children

Birrell, J. A., M.D., B.S. Lond., M.R.C.P. (C.).
Price, N. L., M.D., Ch.B., M.R.C.P. Lectr.
1 Recognized Teacher.

Diseases of the Skin

Kingston, S. H., M.B., Ch.B., D.P.H. (C.).
Burgess, N., M.A., M.D., B.Ch. Camb., M.R.C.P. (C.).

Fevers

Peters, B. A., M.D., B.Ch., D.P.H. Camb., M.R.C.P. (C.).

(C.) = Clinical Lectr.

Forensic Med.

Davis, O. C. M., D.Sc. Lond. and Brist., M.D., Ch.B., M.R.C.P. (Hd. of Dept.) Lectr.

Laryng., Rhin., and Otology

Wright, A. J. M., M.B., B.S. Lond., M.B., Ch.B., F.R.C.S. Lectr. (Hd. of Dept.) (C.).

Watson-Williams, E., M.C., M.B., B.Ch. Camb., M.B., Ch.M., F.R.C.S.Ed. (C.).

Scarff, G. R., M.B., Ch.B., F.R.C.S. Ed. (C.).

James, J. A., M.D., B.S. Lond., M.B., Ch.B., F.R.C.S. (C.).

1 Recognized Teacher.

Materia Med. and Practical Pharmacy

Davis, O. C. M., D.Sc. Lond. and Brist., M.D., Ch.B., M.R.C.P. Reader.

2 Recognized Teachers in Pract. Pharm.

Medicine, v. also Path., Pharm.

Perry, C. B., M.D., Ch.B., F.R.C.P. Prof.

Clarke, R. C., O.B.E., M.B., Ch.B., M.R.C.P. (C.).

Herapath, C. E. K., M.C., M.D., B.S. Lond. Clin. Dean. (C.).

Todd, A. T., O.B.E., M.B., Ch.B. Edin., M.R.C.P. (C.).

Carleton, H. H., M.A., M.D., B.Ch. Ox., M.R.C.P. Sr. Tutor (C.).

Birrell, J. A., M.D., B.S. Lond., M.R.C.P. (C.).

Sutton, G. E. F., M.C., M.D. Lond., M.R.C.P. Jr. Tutor (C.).

Orr-Ewing, H. J., M.D. Lond., F.R.C.P. Jr. Tutor (C.).

Alexander, A. J. P., M.D., B.Ch., B.A.O. Belf., M.R.C.P.I., M.R.C.P. (Tuberculosis) (C.).

Disney, M. E., M.D. Lond., M.R.C.P. (to Dental Students) Demr.

Ling, T. M., M.A., B.M., B.Ch. Ox., M.R.C.P. (Industrial M.) Sp. Lectr.

Fraser Roberts, J. A., M.A. Camb., D.Sc., M.B., Ch.B. Edin., F.R.S.Ed. (Human Genetics) Sp. Lectr.

1 Recognized Teacher.

Mental Diseases

Martin, J. J. B., M.B., Ch.B. Edin., M.R.C.P. Ed. (Hd. of Dept.) Lectr. (C.).

Obstetrics

Smythe, H. J. D., M.C., M.D., M.S. Lond., F.R.C.S. Prof. (C.).

Hector, F. J., M.D., Ch.B., F.R.C.S. Tutor (C.).

Shepherd, H. L., Ch.M., M.B. (C.).

2 Recognized Teachers.

Ophthalmology

Iles, A. E., O.B.E., M.B., B.S. Lond., F.R.C.S. (Hd. of Dept.) Lectr. (C.).

Chambers, E. R., F.R.C.S.E., D.O.M.S. (C.).

1 Recognized Teacher.

Pathology and Bacteriology

Hewer, T. F., M.D., M.R.C.P. Prof.

Fraser, A. D., M.A., B.Sc., M.B., Ch.B. Glas., D.P.H. Lectr.

Taylor, A. L., M.D., Ch.B. Leeds. Lectr.

Magee, V., M.B., Ch.B., B.A.O. Belf., D.P.H. Lectr.

Fisher, J. A., M.D., B.Ch. Belfast Lectr.

Isserlin, B., M.B., Ch.B. Research Asst.

Pharmacology

Thornton, J. W. de W. G., M.A., B.M., B.Ch. Ox. Lectr.

(C.) = Clinical Lectr.

Physio-Therapeutics

Spoor, A. T., M.A. Camb., M.R.C.S., L.R.C.P. Lectr.

Preventive Medicine and Public Health

Parry, R. H., M.D., B.S. Lond., M.R.C.P., D.P.H. Prof.
Cooper, K. E., B.Sc., Ph.D. Leeds, M.R.C.S., L.R C.P. (Sr. Bacteriologist) Lectr.
Needs, F. E., F.I.C. (Chem. of Hyg.) Lectr.
Woodman, Dorothy, M.Sc., M.D., B.S. Lond. Sr. Pathological Officer.
Davies, I. G., M.B., B.S. Lond., M.R.C.P., D.P.H. (Public Hlth.) Demr.
Lewis, F. J. W., M.B., Ch.B. Asst. Clin. Pathologist.
Wiseman, Jean, B.Sc. Edin. Jr. Bacteriologist.
2 Recognized Teachers.

Radiology

Bergin, F. G., M.R.C.S., L.R.C.P. (Hd. of Dept.) Lectr. (C.).
Bush, G. B., M.B., Ch.B., D.M.R.E. (C.).
Adams, S. B., M.B., Ch.B., Ph.D., D.M.R. (C.).
1 Recognized Teacher.

Surgery

Short, A. R., B.Sc., M.D., B.S. Lond., F.R.C.S. Prof.
Moore, C. A., M.B., M.S. Lond., Ch.M., F.R.C.S. Clin. Dean (C.).
Chitty, H., M.B., M.S. Lond., F.R.C.S. (C.).
Adams, A. W., M.B., M.S. Lond., F.R.C.S. (C.).
Tasker, D. G. C., B.Sc., M.B., M.S. Lond., F.R.C.S. (C.).
Cooke, R. V., M.B., Ch.M., F.R.C.S. Jr. Tutor (C.).
Wood, D., F.R.C.S. Sr. Tutor (C.).
FitzGibbon, G. M., M.D. Lond., F.R.C.S. (C.).
Jackman, W. A., M.B., Ch.B. (C.).
Paul, R. G., L.R.C.P., F.R.C.S.E. Jr. Tutor (C.).
Pridie, K. H., M.B., Ch.B. (C.).
3 Recognized Teachers.

Dentistry

Dental Anat.

Nichols, F. C., M.B., Ch.B., M.R.C.S., L.R.C.P., L.D.S. Lectr.

Dental Mechanics

Stoy, P. J., B.D.S. Birm., L.D.S., R.C.S. (Hd. of Dept.) Lectr.

Dental Surgery

Fawn, G. F., B.D.S., M.R.C.S., L.R.C.P. (Hd. of Dept.) Lectr. (C.).
Nichols, F. C. (C.).
Kettlewell, N. H., H.D.D. Edin., L.D.S. (C.).
Rigg, S. K., L.R.C.P., L.R.C.S.E., L.D.S. (C.).
Lennox, W. J., B.D.S. Tutor.
Simmonds, N. H., L.D.S. Tutor.
Wells, J., L.D.S., H.D.D. Edin. Tutor.
Hogbin, F. R., L.D.S. Tutor.
Willway, F. W., M.D., M.S. Lond., F.R.C.S. Demr.

Orthodontics

Kettlewell, N. H. Lectr.

(C.) = Clinical Lectr.

University Extension

Director of Extra-mural studies—Salt, W. E., M.A. Sheff., B.Com. Manc. Extra-mural Lecturers: 30 members of the staff, including 16 for Tutorial Classes.

Resident Tutors: *Bristol*—Manvell, A. R., B.A., Ph.D. Lond. *Gloucestershire*—Taylor, W. R., B.Sc. (Econ.) Lond.; Tucker, H. F. G., M.A. *Somerset*—Cair, S. H., B.Sc. (Econ.) Lond.; Ollett, F. A., M.A. Camb. *Dorset*—Booth, N. H., B.Litt. Ox. *Wilts.*—Dacombe, Marianne R., M.A. Ox.

Social Work, Theory and Practice of—2 Recognized Teachers.

Training Course for Health Visitors—6 Recognized Teachers.

Lewis Fry Memorial Lecturer

1938–39—Sir Sarvapalli Radhakrishnan, "The Renaissance in Religion."

Arthur Skemp Memorial Lecturer

(*English Literature, biennial*)

1939—Siegfried Sassoon.

Shakespeare Lecturer

1938–39—Professor C. J. Sisson, M.A., D ès L., "The Tragedy of Lady Macbeth."

Art Lecturer

1938–39—Anthony Blunt, M.A., "French Art."

ASSOCIATED INSTITUTIONS, in which specialized teaching is given or facilities for research are afforded:—

Agriculture

LONG ASHTON RESEARCH STATION (Dept. of Agriculture and Horticulture), Long Ashton, Bristol. Director and Univ. Prof. of Agric. Biol., B. T. P. Barker, M.A. Camb. Deputy Director and Reader in the Univ.: T. Wallace, M.C., D.Sc. Durh., A.I.C. (*Chem.*). Staff with the standing of Lectrs. in the Univ.: *Bio-Chem.*—J. O. Jones, M.Sc. Wales; V. L. S. Charley, B.Sc.; H. Martin, M.Sc. Lond. Entomol.—H. G. H. Kearns, B.Sc. Lond., Ph.D. Camb., Dip. Agric. *Entomol., Econ.*—C. L. Walton, Ph.D. Wales, M.Sc. *Mycol.*—R. W. Marsh, M.A. Camb. *Mycol., Econ.*—L. Ogilvie, M.A., B.Sc. Aberd., M.Sc. Camb. *Agricultural Botany*—G. T. Spinks, M.A., Dip. Agr. Camb. *Pomology*—T. Swarbrick, M.Sc., Ph.D. Leeds. *Willow Growing*—H. P. Hutchinson, B.Sc. Lond. With the standing of Asst. Lectrs. in the Univ.: *Plant Physiol.*—W. E. Berry, B.Sc., Ph.D. Leeds; Alice Crang, B.Sc. Lond. *Soil Survey*—D. A. Osmond, B.Sc., Ph.D.; 4 Research Assts., 13 Lab. and Plantation staff. *See also* App. III. I. (*b*).

BERKELEY SQUARE ADVISORY CENTRE. Staff with the standing of Lectrs. in the Univ.: *Agric. Chem.*—A. W. Ling, M.Sc., N.D.A. *Agric. Econ.*—C. V. Dawe, M.Com. Leeds, Ph.D. *Vet. Sci.*—D. W. Menzies, M.R.C.V.S. With the standing of Asst. Lectrs. in the Univ.: *Dairy Bacteriol.*—J. W. Egdell, B.Sc. Durh., N.D.A., N.D.D. *Poultry Pathol.*—Ethel H. L. Duncan, B.Sc. Aberd. With the standing of Teachers in the Univ.: *Agric. Chem.*—H. T. Watkins, M.Sc. Wales. *Agric. Econ.*—J. E. Blundell, M.Com. Birm.

No. of inquiries in 1937, 6453.

CAMPDEN RESEARCH STATION, CAMPDEN, GLOS. For instruction and experimentation in fruit and vegetable preserving on a commercial scale. With the standing of Lectrs. in the Univ.: Director, F. Hirst, M.Sc., A.R.C.S. (*Micro-Biol.*); W. B. Adam, M.A., A.I.C. (*Chem.*). 3 Research Assts. *See also* App. III. I. (*b*).

ROYAL AGRICULTURAL COLLEGE, CIRENCESTER. Principal and Univ.

Professor of Agric., R. Boutflour, M.Sc. Durh. With the standing of Teachers in the Univ.: *Agric.*—P. S. Brown, B.Sc.Agr., N.D.A.; W. T. Price, N.D.A., N.D.D.; B. J. Fricker, N.D.A., N.D.D.; H. L. Knapp, B.Com. Lond; G. Williamson, B.Sc. (Agric.) Durh.; J. R. Clapham, B.Sc. (Agric.) Durh., N.D.A., N.D.D. *Agric. Bot.*—G. Redington, D.Sc. Aberd.; R. Holliday, B.Sc. Leeds. *Agric. Chemistry*—C. Tyler, B.Sc., Ph.D. Leeds; K. Robinson, B.Sc., B.Agr. Belfast. *Estate Management*—A. Noble, B.Sc. Lond., N.D.P.; P. A. Tucker, B.Sc. Lond. *Forestry*—A. D. C. Le Sueur, B.Sc. Agr., F.S.I., Dip. For. *Vet. Sci.*—A. C. Duncan, B.Sc. Agr., F.R.C.V.S.

Domestic Science

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE, GLOUCESTER. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in Dom. Sci., Ruth Whitaker. Staff with the standing of Teachers in the Univ.: *Cookery*—Eileen M. Benson, Edith A. Wright. *Dressmaking*—Irmgard B. Pick. *Housewifery*—A. Margaret Kaye. *Laundry Work*—Ethel Henney. *Method*—Enid H. Jenkin. *Needlework*—Kate A. Voller. *Sci.*—Jessica D. Byett.

NATIONAL TRAINING COLLEGE OF DOMESTIC SUBJECTS, 72-78 Buckingham Palace Rd., London, S.W.1. For practical course for B.Sc. in Dom. Sci. Principal and Univ. Lectr. in Dom. Econ., Grace M. Eland. Staff with the standing of Teachers in the Univ.: *Cookery*—Katherine M. Challen. *Edn. and Craft*—Kathleen J. Lough. *Edn.*—Evelyn Lawrence, B.Sc. Econ., Ph.D. Lond. *Home Management*—Gertrude E. Cottrell. *Laundry Work, etc.*—Hylda M. Lancaster. *Needlework*—Gladys E. Quick, Dorothy M. Howlett (*and Dressmaking*). *Sci.*—Hilda Shaw, B.Sc. Lond. *Sci. and Craft*—Patience Dumas, B.Sc. Lond.

Education (for Kindergarten Training)

REDLAND HIGH SCHOOL FOR GIRLS, BRISTOL. Recognized Teacher—Miss H. Philips.

COLSTON'S GIRLS' SCHOOL, BRISTOL. Recognized Teacher—Miss M. Witney, B.A. Lond.

CLIFTON HIGH SCHOOL FOR GIRLS. Recognized Teacher—Margaret K. Elliott.

Theology (the following are members of the Univ. staff in Theol. subjects for the B.A.)

BAPTIST COLLEGE, BRISTOL. Principal, Rev. A. Dakin, B.D. Lond., D.Th. Heid. The Rev. G. H. Davies, M.A., B.D. Wales, B.Litt. Ox.

WESTERN COLLEGE, BRISTOL. Principal, Rev. R. S. Franks, M.A. Camb., D.Litt. Ox., LL.D.

THEOLOGICAL COLLEGE, SALISBURY. Principal, Rev. Canon A. B. Burrowes, D.D. Ox.; Rev. Chancellor C. T. Dimont, D.D. Ox., M.A.; Rev. Canon S. P. T. Prideaux, D.D. Ox.; Rev. K. N. Ross, M.A. Ox.; Rev. W. G. C. Addison, M.A. Camb., B.D., Ph.D. Lond.

ST. BONIFACE MISSIONARY COLLEGE, WARMINSTER. Principal, ...; Vice-Principal, Rev. C. B. Moss, M.A. Ox., B.D., T.C.D.; Rev. J. F. Clayton, M.A. Ox.; Rev. B. H. P. Fisher, M.A. Camb.; Rev. S. M. Gibbard, B.A. Camb.

GENERAL INFORMATION

The Bristol Medical School, founded in 1833, merged with the University College which was established in 1876. The College was dissolved and the

University received its Charter in 1909. Its main buildings, opened in 1925, occupy a commanding site between the City and the residential districts, cost £500,000; the H. H. Wills Physics Laboratory, opened in 1927, cost £200,000. The Faculty of Engineering is housed in the Merchant Venturers' Technical College, and a grant for the maintenance of the Faculty is made by the Society of Merchant Venturers. Canynge Hall, within easy reach of the University, accommodates the Departments of Preventive Medicine, Pathology, Medicine, Surgery and Obstetrics.

LIBRARIES, 120,000 vols. LABORATORIES: Scientific, Medical, and Engineering, all equipped for purposes of research. Hospitals available for clinical study, 2 General (675 beds), Children and Women (120), Eye (40), in all 835 beds.

FACULTIES. Arts, Science, Medicine, Engineering, Law. Deans: Prof. W. W. Jervis, D.Sc. (Geog.), Prof. C. M. Yonge (Zool.), Prof. R. J. Brocklehurst (Physiol.), Prof. A. Robertson (Mech. and Mining Eng.), Prof. M. M. Lewis (Law).

DEPARTMENTS. Education (places for 290 men and women students); Agriculture and Horticulture; Preventive Medicine.

ADMISSION. See Appendix I.

DEGREE COURSES. B.A., B.A. (Com.), B.Sc., B.Sc. in Agriculture, B.Sc. in Engineering, LL.B.—3 yrs., including at least 2 in the Univ.; Honours in Arts, Pure Science and General Science—4 yrs., except for those who enter with Higher School Certif.; B.Sc. in Domestic Science—4 yrs.; by research in case of a graduate of another Univ.—2 yrs.; M.B., Ch.B.—5 yrs., after passing a Prelim. Science examn. in Chem. and Physics; B.D.S.—4½ yrs., after passing a Prelim. Science examn. in Chem. and Physics, including at least 3 in the Univ.

Instruction given in Theological subjects in the Associated Colleges to undergraduates of the Univ. by the Principal or teachers mentioned above is, for the purpose of the B.A. degree, deemed to be given in and by the Univ.

HIGHER DEGREES. M.A., D.Litt.; M.Sc., D.Sc. (in Pure Sc. or Engineering); Ch.M., M.D.; LL.M., LL.D.; Ph.D. (see p. 13). Graduates of other Univs. are placed practically on the same footing as graduates of Bristol as regards facilities for proceeding to all these except the Medical Degrees. Candidates who graduate with Honours in Science may take the M.Sc. one yr. later. Otherwise the Mastership is not granted within 2 yrs. after graduating. The M.D. may be taken 2 yrs. after graduating in Med., the D.Litt. 4 yrs. after the M.A., and the D.Sc. 4 yrs. (3, if devoted to original work in the Univ.) after the M.Sc. The LL.M. 2 yrs., the LL.D. 4 yrs. after graduating.

DIPLOMAS. Education (post-graduate) 1 yr., Public Administration 2 yrs., L.D.S. 4 yrs., Engineering 3 yrs.

CERTIFICATES. Testamur in Social Study, 2 or (Higher Testamur) 3 yrs., Biblical Studies, 2 yrs., Applied Bacteriology (postgraduate), 1 yr., Midwife Teachers', 9 months.

FEES. Matricn., 3 gs.; Registration, £1: 10s.; Tuition, annual, B.A., 24 gs., Theol. Students (1st year only), 20 gs.; B.Sc., 30 gs.; B.Sc. in Engin., 40 gs. (Lab. practice alone, 4 gs. per term for one day a week); LL.B., 24 gs.; M.B., Ch.B., entire curriculum, 220 gs.; B.D.S., including mech. lab. and hospl. practice, 214 gs.; Testamur in Social Study, 2 yrs., 27 gs.; Dip. in

Public Admin., 2 yrs., £18; Dip. in Dental Surgery, including mech. lab. and hosp. practice, 206 gs. Certif. in Biblical Studies, 2 yrs., £10; Midwife Teacher's Certif., 9 months, 9 gs. Examination and degree fees: B.A., B.Sc., LL.B., 12½ gs.; M.D., 24 gs.; M.D.S., 24 gs.; M.A., M.Sc. and LL.M., 9½ gs.; LL.D., 24 gs.; Ph.D., 13 gs. Univ. Union, £3: 10s. per annum. Home Students' Societies, 10s. 6d.

RESEARCH. The Colston Research Society devotes annually from £600 to £700 to the promotion of Research in the Univ.

SCHOLARSHIPS FOR GRADUATES. Graduate Scholarships for Research (total not exceeding £2000 p.a.), value £60 to £100 each; Studentship in Philosophy, £100; Fellowship for Medical Research, £100. Scholarships: £80 for Chemical research; £52 for Chemical Metall. research; £40 and £31 (women only); £30 for study in English Lit. For particulars of the Michael Hiatt Baker Scholarship, etc., *v.* App. II.

RESIDENCE. Mortimer House and Wills Hall for men—from £75 p.a.; Clifton Hill House and Manor Hall for women students—from 60 gs. p.a.

APPOINTMENTS BOARD. Secy., T. A. Leach, M.A. Victoria Rooms, Bristol 8.

During the calendar year 1937 the number of permanent posts obtained through the Board and otherwise by graduates and others who had registered with the Board was 110, viz. 63 men, 47 women. Educational, 71; Government and Local Government Services, 2; Commerce and Industry, 26; Miscellaneous, 11.

For FORMER STUDENTS there is an Association of Alumni. Secretary—Mrs. I. A. Warne.

UNIVERSITY EXTENSION. Co-operation with Rural Community Councils. The Univ. appoints 3 representatives to the R.C.C. of Gloucestershire and Somerset respectively. Both Rural Community Councils contribute to the salary of whole-time tutors for Adult Education appointed by the Univ. for those Counties.

Schemes for Wiltshire, Dorset and Bristol have been organized in co-operation with the Education Committees for these Counties, each of which contributes to the cost. Resident Tutors have been appointed to organize the work in each county, *v.* p. 36.

PUBLICATIONS. *Calendar* (Oct.); Faculty Prospectuses issued in June; Annual Report of Council; Handbook and Directory of Adult Education, Public Lectures, Halls of Residence, Regns. for Matrion. and for School Certif. Examns. (*Examn. Papers*, 1s. 3d. per set post free); Students' Mag., *Nonesuch*, 1s.

THE YEAR 1937–38

BENEFACTIONS. Mr. Harry Crook, £3000 for Entrance Scholarship; Mr. Foster G. Robinson, Entrance Scholarship in Classics to be known as the Frederick William Gotch Scholarship, value £100 a year.

NEW BUILDINGS. New Library for Dept. of Chemistry; Science Buildings—extension of Biolog. labs. and Dental School in construction; excavations and demolition in progress preliminary to extension of main Library; plans for a new Medical School under consideration.

NEW DEPARTMENT. Radiology.

NEW POSTS. Professorship in place of present Readership in Agric. Heads

of Depts. in Radiol. and Mental Diseases. Clinical Lectureship in Tuberculosis. Special Lectureships in Sedimentary Petrol., Systematic Zool., Industrial Medicine and Human Genetics. Assistant Lectureship in place of present Graduate Demonstratorship in Zool. Assistant Lectureships in Chem. and Geol. Graduate Demonstratorship in Bot. Research Assistantship in Pathol. Recognized Teachers in Diseases of Children and Social Study.

OTHER DEVELOPMENTS. Medical Services and Physical Training—Students admitted to Univ. in and after October 1939 will be required to undergo a Medical examn. in each of their first 3 yrs. The examinations will be conducted by Medical Officers appointed by Univ. and will be free of cost to students. The Medical Officers will be available also for free consultation and advice to students in health matters, but they will not give treatment. The Univ. intends to provide, in a centre near the Union and the main Univ. buildings, facilities for physical training and quick-time exercises.

CHANGES IN REGULATIONS. Regulations for degree of B.Sc. amended by revision of subjects in Honours School of General Science. Regulations for degree of B.Sc. (Agriculture) remodelled. Regulations for degrees of M.B., Ch.B. and B.D.S. and for Dip. in Dental Surgery amended so that candidates entering on a Higher School Certificate must submit evidence of knowledge of Organic Chemistry. Regulations for Matriculation amended so as to allow a somewhat lower standard for purposes of Matriculation in Elementary Maths., or Latin, or French.

EXTRA-MURAL WORK. University Tutorial Classes and Extension Courses in Gloucester, Somerset, Wiltshire and West Dorset; 35 Tutorial Classes in conjunction with W.E.A. with a student membership of 568; 126 Extension Lectures in 4 centres. In rural areas, special village courses and lectures organized by Resident Tutors in conjunction with Rural Community Councils and Advisory Committees; 46 centres in Gloucestershire; 64 in Somerset; 50 in Wiltshire; 32 in West Dorset. 105 short courses, 46 Wireless Listening Groups and 145 single lectures were held. Several series of public lectures in Univ.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. R. E. Mortimer Wheeler, Lewis Fry Memorial Lectures on "Cities and Citizenship in Prehistoric and Roman Britain: A review of recent evidence". Dr. Gilbert Murray, two public lectures under auspices of Hibbert Trust on "Liberality and Civilisation". Sir Eric Maclagan, Professor W. G. Constable, Mr. Ellis K. Waterhouse, Mr. James G. Mann and Mr. Anthony Blunt lectured on "Seventeenth-Century Art in Europe". Dr. Thomas Armstrong, a course of lectures on "The String Quartet". M. A. Digeon, a public lecture on "Le théâtre de Giraudoux," arranged in connexion with International Interchange of University Professors. Dr. D. A. Macnaughton lectured to Classical and English Associations; Professor V. de S. Pinto and Mr. Ronald Russell, to English Association; Professor W. C. M. Lewis, to Chemical Society; Mr. H. Stobie, Mr. R. H. McKeag and Mr. H. J. Phillips, to Dental Students' Society; M. M. Vignon, M. J. Dulac, M. R. Elvin and Professor G. Cohen, to French Circle; Professor D. M. S. Watson, to Geological and Zoological Societies; Dr. R. Burmeister, Dr. F. Steuber, Professor H. Schneider, Herr G. Grimm, Professor Franz Koch and Dr. D. Coveney, to German Society; Emeritus Professor Hearnshaw, Mr. D. Ogg and Professor E. E. Hughes, to Historical Association; Herr Paul Bauer, to Modern Language Association and German Society; Dr. J. T. Randell, to Physical and Chemical Societies; Professor E. K. Tratman, to Spelæological Society. Mr. J. A. I. Agar-Hamilton of Pretoria University gave assistance for one term in Dept. of History. Professor

P. W. Slosson of Ann Arbour (Michigan) is in residence in Univ. as visiting Carnegie Professor.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Professor N. F. Mott—Visiting Lecturer at Univ. of Pittsburg and other American Univs. Dr. H. Jones (Physics) pursued research at Mond Laboratory, Cambridge; Dr. J. A. Kitching (Zoology) is undertaking research in Princeton Univ. as Rockefeller Fellow. T. L. Green (Education) visited Stockholm, Sweden, to enable him to pursue academic and professional investigations. J. G. Pilley (Education) has been appointed to direct Education Dept. of Wellesley Coll., U.S.A.

RETIREMENTS. Lily Baker (Obstetrics); the Rev. F. E. Robinson (Theol.).

RESIGNATIONS. Prof. T. B. Davie (Pathol.); E. Ashby (Bot.); R. C. Menzies (Chem.); H. R. Burrows (Econ.); H. Jones (Physics); L. C. Luckwill (Bot.); J. D. A. Gray (Preventive Med.); Doris Stone (Preventive Med.); Elsie S. Smith (Plant Physiol.); Jessie Ferguson (Domestic Fruit and Veg. Preservation); J. F. H. Thomas (Agric.); E. Shaw (Agric. Sci.); H. N. Jacobs (Estate Management); A. Noble (Surveying and Agric. Implements); J. S. Garside (Poultry Pathol.); A. S. Gribble (Theol.).

DEATHS. Emeritus Prof. G. A. Buckmaster (Physiology); W. A. Andrews (Applied Chem.); Mary J. White (Maths.); C. A. H. Gee (Diseases of Children); the Rev. Canon E. C. West (Theology); Lady Gatacre (Member of Council).

HONORARY DEGREES. *LL.D.*—Rt. Hon. R. Anthony Eden. *D.Litt.*—Mr. T. S. Eliot; Dr. R. E. Mortimer Wheeler; Sir Alfred Zimmern. *D.Sc.*—Dr. C. G. Darwin. *M.D.*—Sir William G. Savage.

STUDENTS. Full-time: 997, including 177 graduates. Part-time: 209, including 47 graduates.

DEGREES OBTAINED. B.A., 13; B.A. Hons., 52; B.A. (Com.), 4; M.A., 9; LL.B. Hons., 10; B.Sc., 18; B.Sc. Hons., 29; B.Sc. Dom. Sc., 5; M.Sc., 6; B.Sc. Eng., 9; B.Sc. Eng. Hons., 4; M.Sc. Eng., 1; M.B., Ch.B., 17; M.D., 1; Ph.D. (Science), 11.

UNIVERSITY OF CAMBRIDGE

Founded in the XII^th century

CHANCELLOR—The EARL BALDWIN OF BEWDLEY, D.C.L. Ox. and Durh., M.A., LL.D. Trinity, F.R.S.

VICE-CHANCELLOR—Professor H. R. DEAN, M.D., Master of Trinity Hall.

HIGH STEWARD—His Grace the DUKE OF DEVONSHIRE, Hon. LL.D. Trinity.

DEPUTY HIGH STEWARD—Rt. Hon. BARON WRIGHT OF DURLEY, M.A., Hon. LL.D. Trinity.

COMMISSARY—Hon. Mr. JUSTICE MACNAGHTEN, K.B.E., K.C., M.A. Trinity.

PROCTORS—W. W. GRAVE, M.A., Ph.D. Emm.; G. C. MORRIS, M.A. King's.

ORATOR—T. R. GLOVER, D.D. St. And., Litt.D. Dub., LL.D. Qu., McMaster, Glas., M.A. St. John's (to 30.9.39).

REGISTRARY—E. HARRISON, LL.D. Glas., M.A. Trinity.

SECRETARY GENERAL OF THE FACULTIES—J. T. SAUNDERS, M.A. Christ's.

ASSISTANT REGISTRARIES—H. CLAYE, M.A. Gonville and Caius;

.....

LIBRARIAN—A. F. SCHOLFIELD, M.A. King's.

TREASURER—T. KNOX-SHAW, M.C., M.A. Sidney Sussex.

ASSISTANT TREASURER—C. R. MACDONALD, M.A. Caius.

REPRESENTATIVES IN PARLIAMENT—See p. 18.

NOTE. The Colleges and Heads of Colleges are given on pp. 53 ff.

Telephone: Registry—Cambridge 2495.

TEACHING STAFF

Aeronautics, v. Engineering

Agriculture, v. *infra*

Anatomy, v. also Zool.

Harris, H. A., D.Sc., M.D. Lond., B.Sc. Wales, M.A. Joh. Prof.

Duckworth, W. L. H., M.D., Sc.D. Jes. (Human A.) Reader.

Barron, D. H., Ph.D. Yale, M.A. Joh. (to 30.1.40) Lectr.

Green, H. L. H. H., M.D. Sid. Lectr.

Reynolds, S. J. R., M.A. Trin. Demr.

Baxter, J. S., M.B., B.Ch. Belf., M.A. Demr.

Davies, D. V., M.B., B.S. Lond. M.A. Trin. H. Demr.
Morton, W. R. M., M.D. Belf., M.A. Demr.
Adkins, E. W. O., B.A. Joh. Demr.
Channell, G. D., M.B., B.S. Lond., M.A. Demr.
Wemyss Smith, S., M.B., Ch.B. Manc., M.A. Demr.

Anglo-Saxon, etc.

Chadwick, H. M., M.A. Clare Elrington and Bosworth Prof.
de Navarro, J. M., M.A. Trin. Lectr.
Hoare, Agnes D. M., Ph.D. Newn. (to 30.9.39) Lectr.

Anthropology

Driberg, J. H., M.A. Trin. Lectr.
Trevor, J. C., B.Sc. Ox., M.A. Emm. Lectr.

Anthropology, Social

Hutton, J. H., D.Sc. Ox., M.A. Cath. William Wyse Prof.

Arabic, v. Oriental Langs.

Archæology, v. also Classical A., Classics, Oriental Langs.

Minns, E. H., Litt.D. Pemb. Disney Prof.
Burkitt, M. C., M.A. Trin. Lectr.

Faculty Asst. Lectrs.

Blair, P. H., M.A. Emm.
Clark, J. G. D., M.A., Ph.D. Pet.

Architecture

Macgregor, J., M.A. Manc. and Camb., Director, Sch. of Arch.

Lecturers

Dyson, W. P., M.A. Trin.
Fyfe, D. T., M.A. Pemb., F.R.I.B.A.
Tomlinson, H., M.A. Chr.
Webb, G. F., M.A. Magd.

Faculty Asst. Lectrs.

Bennett, J. S. W., M.A. Down.
Bicknell, P., M.A. Jes.

Art

Webb, G. F., M.A. Magd. Slade Prof. of Fine Art and Lectr.
Fyfe, D. T., M.A. Pemb., F.R.I.B.A. Lectr.

Assyriology, v. Oriental Langs.

Astronomy and Experimental Philosophy

Eddington, Sir A. S., O.M., LL.D., D.Sc., M.A. Trin., F.R.S. Plumian Prof.
Woolley, R. van der R., M.A., Ph D. Cai., First Asst. and Adams Astronomer.
Green, H. E., M.A. Fitzw. Second Asst.

Astron. & Geom.

Hodge, W. V. D., F.R.S., M.A. Pemb. Lowndean Prof.

Astrophysics

Stratton, F. J. M., D.S.O., O.B.E., T.D., M.A. Cai. Prof., Dir. Solar Physics Obs.
Thackeray, A. D., M.A., Ph.D. King's Asst. Dir., Solar Physics Obs.
Wormell, T. W., M.A., Ph.D. Joh. Obs. in Meteorological Phys.
Moss, W. 1st Sen. Solar Physics Observer.
Dobbie, J. C., M.A. Trin. 2nd Senior Observer.
Brück, H., D.phil. Berlin 1st Junior Observer.
..... 2nd Junior Observer.

Biochemistry

Hopkins, Sir F. G., O.M., M.A., Sc.D. Trin., F.R.S. Sir W. Dunn Prof.

Needham, N. J. T. M., M.A., Ph.D., Sc.D. Cai. Sir W. Dunn Reader.
Bell, D. J., M.A. Jesus Lectr.
Dixon, M., Ph.D., Sc.D. Emm. Lectr.
Holmes, E. G., M.D. Down. Lectr.
Pirie, N. W., M.A. Emm. Demr.
Baldwin, E. H. F., B.A., Ph.D. Joh. Demr.

Biology

Keilin, D., M.A. Magd., F.R.S. (Dir. of Molteno Inst. of Biology and Parasitol.). Quick Prof.
Tate, P., Ph.D. Chr. (Parasitol.) Lectr.

Botany, v. also Agric.

Brooks, F. T., M.A. Emm., F.R.S. Prof.
Briggs, G. E., M.A. Joh. (Plant Physiol.). Reader.
Thomas, H. H., Sc.D. Down., F.R.S. (Plant Morphol.). Reader.

Lecturers

Catcheside, D. G., M.A. King's.
Gilbert-Carter, H., M.A. Trin.
Godwin, H., M.A., Ph.D. Cla.
Maskell, E. J., M.A., Ph.D. Emm. (Plant Physiol.).
Dowson, W. J., M.A. Chr. (Mycol.).
Watt, A. S., B.A., Ph.D. Down. (Forest Bot.).

Demonstrators

Valentine, D. H., M.A., Ph.D. Joh. (to 30.9.39).
Richards, P. W., M.A., Ph.D. Trin.
Chapman, V. J., M.A., Ph.D. Cai.
Evans, G. C., M.A. Joh. (Plant Physiol.).

Celtic

Jackson, K. H., M.A. Joh. (to 30.9.39) Fac. Asst. Lectr.

Chemistry, v. also Biochem., Physiol., Theoret. Chem. and Prev. Med.

Pope, Sir Wm. J., K.B.E., M.A. Sid., F.R.S. Prof.
..... Asst. to Prof.

Lecturers

Berry, A. J., M.A. Down.
Kipping, F. B., M.A., Ph.D. Trin.
McCombie, H., M.A., Sc.D. King's.
Mann, F. G., Ph.D., Sc.D. Trin.
Palmer, W. G., M.A., Sc.D. Joh.
Stockdale, D., M.A., Ph.D. King's.

Demonstrators

Driver, J. E., Ph.D. Lond., M.A.
Maitland, P., Ph.D. Jes.
Moelwyn-Hughes, E. A., Ph.D. Corp.
Price, W. C., Ph.D. Trin.
Saunders, B.C., M.A., Ph.D. Magd. (to 30.9.39).

Chemistry, Physical

Norrish, R. G. W., B.A., Ph.D., Sc.D. Emm., F.R.S. Prof.
Rideal, E. K., M.A. Trin. H., F.R.S. (Colloid Sci.) J. H. Plummer Prof.
Bowden, F. P., Ph.D., Sc.D. Cai. H. O. Jones Lectr.
Roberts, J. K., Ph.D. Trin. (Colloid. Sci.) Asst. Dir. of Res.
Schulman, J. H., Ph.D. Trin. H. (Colloid Sci.) Asst. Dir. of Res.
Melville, H. W., Ph.D. Trin. Asst. Dir. of Res.

Chemistry, Theoretical

Lennard-Jones, J. E., D.Sc. Manc., Ph.D. Corp., F.R.S. J. H. Plummer Prof.

Classical Archæology

Wace, A. J. B., LL.D. Liv., M.A. Pemb. Laurence Prof.
Lawrence, A. W., M.A. Qu. Laurence Reader.

Classics

Robertson, D. S., M.A. Trin. (Greek) Reg. Prof.

Anderson, W. B., M.A. Trin. (Latin) Kennedy Prof.
Sheppard, J. T., M.A. King's Brereton Reader.
Angus, Rev. C. F., M.A. Trin. H. Perceval Maitland Laurence Reader.
Charlesworth, M. P., M.A. Joh. (Anc. Hist.) Laurence Reader.

Lecturers

Angus, Rev. C. F., M.A. Trin. H.
Campbell, S. G., M.A. Chr. (Epigraphy and Dialects).
Deas, H. T., M.A. Cai.
Edmonds, J. M., M.A. Jes.
Gardner, R., M.A. Emm.
Glover, T. R., M.A. Joh. (Ancient History) (to 30.9.39)
Gow, A. S. F., M.A. Trin.
Greenwood, L. H. G., M.A. Emm.
Guthrie, W. K. C., M A. Pet.
Hackforth, R., M.A. Sid.
Hallward, B. L., M.A. Pet.
Hammond, N. G. L., M.A. Cla. (to 30.9.39).
Howland, R. L., M A. Joh.
Jenkins, R. J. H., M.A. Emm. (Mod. Gk.) (to 30.9.39). Lewis-Gibson Lectr.
Jones, W. H. S., Litt.D. Cath.
Lucas, D. W., M.A. King's.
Peck, A. L., M.A., Ph.D. Chr.
Rattenbury, R. M., M.A. Trin.
Sandbach, F. H., M.A. Trin.
Seltman, C. T., M.A. Qu.
Sheppard, J. T., M.A. King's.
Sinker, A P., M.A. Jes. (to 30.9.39).
Toynbee, Jocelyn, M.A. Newn.
Vernon Jones, V. S., M.A. Magd.
Wilkinson, L. P., M.A. King's (to 30.9.39).

Faculty Asst. Lectrs.

Griffith, G. T., M.A. Cai. (to 30.9.39).
Lee, H. D. P., M.A. Corp.
Camps, W. A., M.A. Pemb.

Divinity, v. also Orient. Langs.

Creed, Rev. J. M., D.D. Joh. Ely Prof.
Marsh, Rev. F. S., M.A. Selw. Lady Margaret's Prof.
Dodd, Rev. C. H., M.A. Jes., Ox., Manc. and Camb., D.D. Aberd. Norris-Hulse Prof.
Raven, Rev. C. E., D.D. Chr. Reg. Prof.
Whitney, Rev. J. P., D.D. Emm. (Eccles. Hist.) Dixie Prof.
Mannering, Canon L. G., M.A. (Pastoral Theol.) Lectr.

Other Lecturers

Boys Smith, Rev. J. S., M.A. Joh.
Burnaby, Rev. H., M.A. Emm.
Chase, Rev. G. A., M.A. Selw.
Gardner-Smith, Rev. P., M.A., B.D. Jes.
Heywood, Rev. H. C. L., M.A. Cai.
Smith, Rev. B. T. D., D.D. Sid.
Stevenson, J., M A. Joh.
Telfer, Rev. W., M.A., D.D. Cla.
Wood, Rev. C. T., B.D. Qu.

Faculty Asst. Lectrs.

Davey, Rev. F. N., M.A. Corp.
Hart, Rev. H. St. J., M.A. Qu.

Economics and Politics

Pigou, A. C., M.A. King's (Polit. Econ) Prof.
..... Reader.
Fay, C. R., M.A. Chr. (Econ. Hist.) Reader.
Sraffa, P., M.A. King's Ass. Dir. of Res. in Econ.

Lecturers

Alston, L., M.A. Chr.
Champernowne, D. G , M.A. King's (Statistics).
Dobb, M. H., M.A. Pemb.
Guillebaud, C. W., M.A. Joh.
Hollond, Mrs. Marjorie, Ph.D. Col. Girton.

Kahn, R. F., M.A. King's.
Robinson, E. A. G., M.A. Sid.
Robinson, Mrs. Joan V., M.A. Girton.
Rowe, J. W. F., M.A. Pemb.
Shove, G. F., M.A. King's Girdlers' Lectr.
Thatcher, W. S., M.A. Fitzw. Lectr.

Education

Owst, G. R., Litt.D. Emm. Prof.
Thouless, R. H., M.A., Ph.D. Corp. Lectr.

Asst. Lecturers

Williamson, R. S., M.A. Chr. (to 30.9.39).
Meldrum, R., M.A. Joh. (to 30.9.39).

Engineering, v. *infra*

English, v. also Anglo-Saxon

Quiller-Couch, Sir A. T., M.A. Jes. K. Ed. VII. Prof.

Lecturers

Bennett, H. S., M.A. Emm.
Bennett, Mrs. Joan, M.A. Girton.
Davies, H. S., M.A. Joh.
Downs, B. W., M.A. Chr.
Henn, T. R., M.A. Cath.
Leavis, F. R., B.A., Ph.D. Down.
Lucas, F. L., M.A. King's.
Potts, L. J., M.A. Qu.
Richards, I. A., M.A., Litt.D. Magd.
Rylands, G. H. W., M.A. King's.
Tillyard, E. M. W., M.A., Litt.D. Jes.
Welsford, Enid E. H., M.A. Newn.
Willey, B., M.A. Pemb.

Faculty Asst. Lectr.

Lloyd Thomas, Mary G., M.A. Girton.

Entomology

Imms, A. D., M.A. Chr. Reader.
Thorpe, W. H., M.A., Ph.D. Jesus Lectr.

French

Green, F. C., M.A. Magd. and St. And., Ph.D. Cologne, D. de l'U. Paris Drapers' Prof.
Stewart, Rev. H. F., D.D. Trin. Reader.
Ashton, H., Litt.D. Cai. Lectr.
Beves, D. H., M.A. King's Lectr.
Briggs, E. R., M.A., Ph.D. Trin. Lectr.
Charvet, P. E., M.A. Corp. Lectr.
Combe, T. G. S., M.A. Edin. and Camb., D. de l'U. Bordeaux.
Harmer, L. C., M.A., Ph.D. Fitzw. Lectr.
Stokoe, F. W., M.A. Cai. Lectr.
Vulliamy, E. O., M.A. King's Lectr.
Hibon, R., L. ès L. Paris (to 30.9.39) Lector.
Mignonat, R., L. ès L. Bordeaux (to 30.9.39) Lector.
Gilmer, J. S., L. ès L. Paris (to 30.9.39). Lector.

Genetics

Punnett, R. C., M.A. Cai., F.R.S. Arthur Balfour Prof.

Geodesy

Lenox-Conyngham, Col. Sir G. P., M.A. Trin. Reader.
Browne, B. C., M.A. Pemb. (to 30.9.39) Demr.

Geography [Prof.

Debenham, F., O.B.E., M.A. Cai.

Lecturers

Darby, H. C., M.A., Ph.D. King's.
Stanners, R. W., M.A. Cai.
Steers, J. A., M.A. Cath.
Wanklyn, Harriet G., M.A. Girton (to 30.9.39).
Williams, W. W., B.A. Fitzw.
Lewis, W. V., M.A. Cai. Demr.

Geology, v. also Mineral.

Jones, O. T., M.A. Cla., F.R.S. Woodwardian Prof.

Shotton, F. W., M.A. Sid. (to 30.9.39) Lectr.
Bulman, O. M. B., Ph.D., Sc.D. Sid. (Palæozool.) Lectr.
Black, M., M.A. Trin. Lectr.
St Joseph, J. K. S., M.A., Ph.D. Selw. Demr.

Geophysics

Jeffreys, H., M.A. Joh. Reader.

German

Williams, R. A., M.A. Cath., Litt.D. Dub., D.Lit. Belf., Ph.D. Leipzig Schröder Prof.
Bennett, E. K., M.A. Cai. Lectr.
Garland, H. B., M.A., Ph.D. Emm. Lectr.
Jones, T. D., M.A. Trin. H. Lectr.
Knight, A. H. J., M.A. Trin. Lectr.
Pascal, R., M.A. Pemb. Lectr.

Faculty Asst. Lectrs.

Auty, R., B.A. Cai.
Forster, L. W., M.A. Selw.
Bettex, A. W., Ph.D. Basel (to 30.9.39) Lector.

Hebrew, v. Oriental Langs.

History

Lecturers

Balfour, R. E., M.A. King's.
Barraclough, G., M.A. Joh.
Behrens, Catherine B. A., B.A. Ox.
Brooke, Z. N., Litt.D. Cai.
Bury, J. P. T., M.A. Corp.
Butler, J. R. M., M.A. Trin.
Butterfield, H., M.A. Pet.
Cam, Helen M., M.A., Litt.D. Girton.
Crawley, C. W., M.A. Trin. H.
Evennett, H. O., M.A. Trin.
Jones, Mary G., M.A. Girton.
Kitson Clark, G. S. R., M.A. Trin.
Laffan, R. G. D., M.A. Qu.
Manning, B. L., M.A. Jes.
Morris, G. C., M.A. King's.
Oakeshott, M. J., M.A. Cai.
Passant, E. J., M.A. Sid.
Perrett, G. B., M.A. Selw.
Pickthorn, K. W. M., M.A., Litt.D. Corp., M.P.
Rich, E. E., M.A. Cath.
Salter, F. R., M.A. Magd.
Saltmarsh, J., M.A. King's.
Sikes, J. G., M.A. Jes.
Simpson, Rev. F. A., M.A. Trin.
Steel, A. B., M.A. Chr.
Welbourne, E., M.A. Emm.

Faculty Asst. Lectrs.

Grierson, P., M.A. Cai.
Hope-Jones, A., M.A. Chr.
White, R. J., M.A. Down.

History, Ancient, v. also Classics

Adcock, F. E., M.A. King's Prof.

History, Eccl., v. Div.

History, Econ.

Postan, M. M., M.Sc. Lond., M.A. Pet. Prof.
Fay, C. R., M.A. Chr. Reader.

History, Imperial and Naval

Walker, E. A., M.A. Ox. and Cape, M.A. Joh. Vere Harmsworth Prof.

History, Indian [Lectr.

Gaskoin, C. J. B., M.A. Jes.

History, Medieval [Prof.

Previté-Orton, C. W., Litt.D. Joh.

History, Modern

Trevelyan, G. M., O.M., D.Lit. Lond., Litt.D., M.A. Trin. Reg. Prof.
Temperley, H. W. V., O.B.E., M.A., Litt.D. Pet., F.B.A. Prof.

Hygiene, v. Med.

Industrial Relations

Hilton, J., M.A. Montague Burton Prof.

Italian

Vincent, E. R. P., M.A. Ox. and Corp., D.Phil. Ox. Prof.

Breglia, S. G. C., M.A. Lond. and Camb. Lectr.
Butler, Kathleen T. B., M.A. Girton Lectr.
Pettoello, D. E. S., Dr. Phil. Turin, M.A. Jes. Lectr.

Law, v. *infra*

Logic, v Philos.

Mathematics, v. also Physics
Dirac, P. A. M., Ph.D. Joh., F.R.S. Lucasian Prof.
Hardy, G. H., M.A. Trin., F.R.S. (Pure M.) Sadleirian Prof.
Littlewood, J. E., LL.D. St. And., D.Sc. Liv., M.A. Trin., F.R.S. Rouse Ball Prof.

Lecturers
Besicovitch, A. S., M.A. Trin., F.R.S. Cayley Lectr.
Babbage, D. W., M.A., Ph.D. Magd.
Bartlett, M. S., M.A. Qu.
Burkill, J. C., M.A. Pet.
Cartwright, Mary L., M.A. Girton.
Cunningham, E., M.A. Joh.
Dean, W. R., M.A. Trin.
Goldstein, S., M.A., Ph.D. Joh., F.R.S. Stokes Lectr.
Hall, P., M.A. King's.
Howarth, L., M.A., Ph.D. King's (to 30.9.39).
Ingham, A. E., M.A. King's.
Newman, M. H. A., M.A. Joh.
Pars, L. A., M.A. Jes.
Pollard, S., M.A. Trin.
Powell, F. C., M.A., Ph.D. Cai.
Steen, S. W. P., M.A. Chr.
Stoneley, R., Sc.D. Joh.
Taylor, H. McC., M.A., Ph.D. Cla.
Todd, J. A., B.A., Ph.D. Trin.
White, F. P., M.A. Joh.
Wilson, A. H., M.A. Trin.
Wood, P. W., M.A. Emm.

Wilkes, M. V., M.A., Ph.D. Joh. Demr.

Faculty Asst. Lectrs.
Booker, H. G., B.A., Ph.D. Chr.
Lyttleton, R. A., M.A., Ph.D. Joh.

Medicine and Surgery, v *infra*

Metallurgy
Hutton, R. S., D.Sc.Manc., M.A. Cla. Goldsmiths' Prof.
Evans, U. R., Sc.D. King's Asst. Director of Research.

Meteorology, v. Astrophysics

Military Studies
Murray, Col. K. D. B., C.B., D.S.O., M.A. Pet. Director.

Mineralogy and Petrology
Tilley, C. E., Ph.D. Emm., F.R.S. Prof.

Lectrs.
Phillips, F. C., M.A., Ph.D. Corp.
Wooster, W. A., M.A., Ph.D. Pet.

Demrs.
Nockolds, S. R., Ph.D. Trin.
Evans, R. C., M.A., Ph.D. Cla.
Henry, N. F. M., Ph.D. Joh.

Moral Science, v. Philos.

Music
Dent, E. J., M.A., Mus.B. King's Prof.
Middleton, H. S., M.A., Mus.B. Trin. Lectr.
Moule, H. C. C., M.A., Mus.B. Trin. Lectr.
Ord, B., M.A., Mus.B. King's Lectr.

Oriental Langs., v. *infra*

Palæozoology, v. Geology

Parasitology, v. Biology

Petrology, v. Mineralogy

Philology, Comparative
Jopson, N. B., M.A. Joh. Prof.

Philosophy
Moore, G. E., Litt.D. Trin. (to 30.9.39) Prof.
Wittgenstein, L., Ph.D. Trin. (from 1.10.39) Prof.

Philosophy, Ancient
Cornford, F. M., M.A., Litt.D. Trin. (to 30.9.39) Laurence Prof.

Philos., Moral, v. also Psychol.
Broad, C. D., Litt.D. Trin. Knightbridge Prof.
Braithwaite, R. B., M.A. King's Sidgwick Lectr.
Ewing, A. C., M.A., Litt. D. Trin. H. Lectr.
Wisdom, A. J. T. D., M.A. Trin. Lectr.

Philos., Natural
..... Jacksonian Prof.

Physics, v. also Philos., Nat.
Bragg, W. L., O.B.E., Sc.D. Dub., M.Sc. Manc., M.A. Trin., F.R.S., F.Inst.P., N.L. (Exper. P.) Cavendish Prof.
Thomson, Sir J. J., O.M., M.A., Sc.D. Trin., F.R.S. Prof.
Fowler, R. H., M.A. Trin., F.R.S. (Math. P.) J.H. Plummer Prof.

Lecturers
Wood, A., M.A. Emm.
Davies, Ann C., M.A. Newnham.
Bedford, T. G., M.A. Sid.
Feather, N., B.A., Ph.D. Trin. (to 30.9.39).
Lewis, W. B., M.A., Ph.D. Cai.
Ratcliffe, J. A., M.A. Sid.
Cockcroft, J. D., M.A., Ph.D. Joh.
Dee, P. I., M.A. Sid.
Bradley, A. J., D.Sc. Manc., M.A. (Crystallography) Asst. Dir. of Research

Demonstrators
Gilbert, C. W., M.A., Ph.D. Jes. (to 30.9.39).
Carmichael, H., Ph.D. Joh.
Shire, E. S., M.A. King's.

Physiology, v. also Agric.
Adrian, E. D., M.A., M.D. Trin. Prof.
Millikan, G. A., Ph.D. Trin. (to 30.9.39) Lectr.
Roughton, F. J. W., M.A., Ph.D. Trin. (Physico - chemical Aspects of P.) Lectr.
Rushton, W. A. H., M.A., Ph.D. Trin. Lectr.
Feldberg, W., M.D. Berlin, M.A. Lectr.
Tunnicliffe, H E., M.A Cai. Lectr.
Willmer, E. N., M.A. Cla. Lectr.
Hodgkin, A. L., B.A. Trin. Demr.
Adair, G. S., M.A. King's Asst. Dir. Physiol. Res.
Matthews, B. H. C., M.A., Sc.D. King's Asst. Dir. Physiol. Res.

Political Economy, v. Econ.

Political Science
Barker, E., LL.D. Edin. and Harv., Litt.D. Pet. (to 30.9.39) Prof.

Portuguese, v. Spanish

Psychology, Exper., v. also *infra* Med.—Psychopathol.
Bartlett, F. C., M.A. Joh., F.R.S. (Dir. of the Psych. Lab.) Prof.
Banister, H., Ph.D. Joh. Lectr.
Grindley, G. C., M.A., B Sc. Brist. Lectr.

Psychology, Industrial
Farmer, E., M.A. Trin. Reader.
Chambers, E. G., M.A. Cla. Asst. Dir. of Research.

Romance [Reader.
Braunholtz, E. G. W., M.A. King's

Sanskrit, v. Oriental Langs.

Scandinavian Studies
Downs, B. W., M.A. Chr. Director.

Tennant, P. F. D., M.A. Qu. (to 30.9.39). Faculty Asst. Lectr.

Slavonic

Hill, Elizabeth M., Ph.D. Lond., M.A. Girton (to 30.9.39) Lectr.

Spanish

Trend, J. B., M.A. Chr. Prof.
Muñoz-Rojas, J. A., Pet. (to 30.9.39) Lector.
Barker, J. W., M.A., Ph.D. Down. (and Portuguese) Lectr.
Bullock, T. W. I., M.A. Qu. Lectr.
Grave, W. W., M.A., Ph.D. Emm. Lectr.
Wilson, E. M., M.A., Ph.D. Trin. Lectr.

Statistics

Wishart, J., M.A. Cla. and Edin., D.Sc. Lond. Reader.
Champernowne, D. G., M.A. King's Lectr.

Theology, v. Divinity

Zoology, v. also Animal Path., Entom., Med. Entom.

Gray, J., M.A., Sc.D. King's, F.R.S. Prof.
Pantin, C. F. A., M.A., Sc.D. Trin., F.R.S. (Invertebrate Z.) Reader.
Ramsay, J. A., M.A., Ph.D. Qu. Harding Lectr.

Lecturers

Carter, G. S., M.A., Ph.D. Corp.
Cott, H. B., D.Sc. Glas., M.A. Selw.
Parrington, F. R., M.A. Sid.
Salt, G., Ph.D. King's.
Smith, J. E., Ph.D. Lond., M.A.
Waddington, C. H., M.A., Sc.D. Chr. (to 30.9.39).

Demonstrators

Harris, J. E., M.A., Ph.D. Chr.
Gilson, H. C., M.A. Trin.
Hollick, F. S. J., M.A., Ph.D. Joh.
Pringle, J. W. S., M.A. King's.
Smith, S., M.A., Ph.D. Cath.
Varley, G. C., M.A., Ph.D. Sid.

Agriculture

v. also Biology

Engledow, F. L., C.M.G., M.A. Joh. Drapers Prof.

Lecturers

Garner, F. H., M.A. Cla.
Line, J., M.A. Emm.
Mansfield, W. S., M.A. Emm.
Sanders, H. G., M.A., Ph. D. Joh.

Agric. Biology

Watkins, A. E., M.A. Joh. (Cytol.) Lectr.
Dickinson, S., M.Sc. Wales, Ph.D. Minnesota, M.A. Emm. (Mycol.) Lectr.
Bell, G. D. H., Ph.D. Selw. Demr.

Agric. Chemistry

Lecturers

Nicholson, H. H., M.A. Selw.
Woodman, H. E., M.A. Down.

Agric. Econ. and History

Venn, J. A., Litt.D. Qu. Gilbey Lectr.

Agric. Engineering

Culpin, C., M.A. Joh. Demr.

Agric. Physiology

Marshall, F. H. A., C.B.E., Sc.D. Chr., F.R.S. Reader.

Animal Pathology

Dalling, T., M.A., M.R.C.V.S. Prof.

Estate Management

Dean, N., M.A. Trin. H. Lectr.

Forestry

Thompson, C. H., M.A. Qu. (to 30.9.39) Gurney Lectr.

Soil Science

Childs, E. C., Ph.D. Cla. (to 30.9.39) Demr.

Engineering

Lecturers

Angus, R. H., M A. Sid.
Browne, A. D., M.A. Qu.
Davenport, A. H., M.A. Sid.
Gough, G. S., M.A. Trin.
Hayes, R. A., M.A. Trin. H.
Landon, J.W., M.A. Cla. (Mech. E.)
Lubbock, R., M.A. Pet.
Peake, A. H., M.A. Joh.
Phear, H. W., M.A. Cai.
Portway, D., M.A. Cath.
Sanders, T. R. B., M.A. Corp. (to 30.9.39).
Spittle, J. T., M.A. Pemb.
Turner, L. B., M.A. King's.
Womersley, W. D., M.A. Emm.
Woodward, W. E., M.A. Trin.
Wyatt, T. C., M.A. Chr.

Demonstrators

Cosens, C R. G., M.A. King's.
Dykes P. de K., M.A. Trin.
de Bruyne, N. A., M.A., Ph.D. Trin.
Fox, T. R. C., M.A. Jes.
Diamond, J., M.Sc. Joh.
Davies, R. D., M.A., Ph.D. Chr.
Cooper, B., M.A. Cla.
Percival, A. L., B.A. Jes.
Rhoden, H. G., B.A. Joh.

Aeronautical Engineering

Jones, B. M., C.B.E., M.A. Emm. F. Mond Prof.
Stephens, A. V., M.A. Joh. Demr.

Mechanical Sciences

Inglis, C. E., O.B.E., M.A. King's, F.R.S. Prof.

Thermodynamics, Applied

Bird, A. L., M.A. Pet. Hopkinson Lectr.

Law

Kantorowicz, H., M.A. Asst. Dir. of Research.

Lecturers

Ashton-Cross, D. I. C., B.L. Edin., M.A. Joh. (to 30.9.39).
Bailey, S. J., M.A., LL.M. Joh.
Barnes, H., M.A., LL.B. Jes.
Duff, P. W., M.A. Trin.
Ellis Lewis, T., Ph.D. Trin. H.
Hamson, C. J., M.A., LL.M. Trin.
Jackson, R. M., M.A., LL.B. Joh.
King, B. E., M.A., LL.B. Pemb.
Turner, J. W. C., M.A., LL.B. Trin. H.
Wade, E. C. S., M.A., LL.D. Cai.
Whalley-Tooker, H. C., M.A., LL.M. Down.

Faculty Asst. Lectrs.

Williams, G. L., M.A., Ph.D. Joh.
Logan, D. W., M.A. Trin.

Law, Civil

Buckland, W. W., LL.D. Cai. Reg. Prof.

Law, Comparative

Gutteridge, H. C., M.A., LL.M. Trin. H. Prof.

Law, English

Winfield, P. H., LL.D. Joh. Rouse Ball Prof.
Hollond, H. A., D.S.O., O.B.E., M.A., LL.M. Trin. Reader.

Law, Indian

Campbell, A., M.A. Pemb. Lectr.

Law, International

Lauterpacht, H., LL.D. Lond., Dr. Jur., Dr. Sc.Pol. Vienna, M.A. Trin. Whewell Prof.

Laws of England

Hazeltine, H. D., Litt.D. Down. Downing Prof.

Medicine

(For subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Medical Chemistry

Cole, S. W., M.A. Trin. Lectr.

Medicine, v. also Physic

McCance, R. A., Ph.D., M.D. Sid., F.R.C.P. Reader.

Mental Pathology, v. Psychopath.

Pathology

Dean, H. R., M.D. Trin. H. Prof.
Spooner, E. T. C., M.A. Cla. Lectr.
Williamson, R., M.A. Cla. Lectr.

Demonstrators

Greaves, R. I. N., M.A., M.B., B.Ch. Cai.
McCullagh, G. P., M.D. Belf., M.A. Qu.
Barrett, A. M., M.B., B.Ch Pemb.

Pathology, Special

Drury, A. N., M.D. Trin H., F.R.S. Huddersfield Lectr.

Pharmacology

Verney, E. B., M.A., M.B., B.Ch. Down., F.R.C.P., M.R.C.S., F.R.S. Sheild Reader.
Myers, G. N., Ph.D. Sid. Demr.

Physic

Ryle, J. A., M.D. Lond. and Cai., F.R.C.P. Reg. Prof.
Drury, A. N., M.D. Cai., F.R.S. Assessor to Reg. Prof. Physic.

Preventive Medicine

Graham-Smith, G. S., M.D. Pemb. Reader.

Psychopathology

MacCurdy, J. T., Sc.D. Corp. Lectr.

Surgery

Roderick, H. B., O.B.E., M.D., M.Chir. Emm. Lectr.

Oriental Languages

Arabic

Storey, C. A., M.A. Trin. Sir T. Adams's Prof.

Aramaic

Goodman, A. E., M.A. Cai. Lectr.

Assyriology

Winckworth, C. P. T., M.A. Chr. Eric Yarrow Lectr.

Bengali

Drummond, J. G., M.A. Chr. (to 30.9.39) Lectr.

Burmese

Furnivall, J. S., M.A. Trin. H. (to 30.9.39) Lectr.

Chinese Language and History

Haloun, G., Ph.D. Leip., M.A. Prof.

Hebrew

Thomas, D. W., M.A. Ox. and Trin. Reg. Prof.

Hindi and Marathi

Harrison, Lt.-Col. H., M.A. Cai. (to 30.9.39) Lectr.

Persian [Lectr.

Levy, R., M.A., Litt.D. Chr.

Rabbinics

Loewe, H. M. J., M.A. Qu. Reader.

Sanskrit

Bailey, H. W., D.Phil. Ox., M.A. Qu. Prof.
Rouse, W. H. D., Litt.D. Chr. (S. and Pali) (to 30.9.39) Lectr.

Tamil and Telugu

Krishnamma, J. R., M.A. Emm. (to 30.9.39) Lectr.

Urdu

Grey, Lt.-Col. W. G., M.A. Cai. (to 30.9.39) Lectr.

Frazer Lecturer (Social Anthropology—Oxford, Cambridge, Glasgow, Liverpool, in rotation).

1938–39—Prof. A. R. Radcliffe-Browne, M.A. Trin.

Hulsean Lecturer (Christian Theol.)

1939—Rev. S. C. Neill, M A.

Leslie Stephen Lecturer

1939—Prof. J. Dover Wilson, C.H., Litt.D.

Alfred Marshall Lecturer

1938–39—Paul van Zeeland.
1939–40—H. B. Butler, C.B.

Rede Lecturer

1939—Sir Edward Mellanby, K.C.B , M.D., F.R.S.

Rouse Ball Lecturer (Maths.)

1938–39—Prof. E. Carten (Paris).

Sandars Reader (Bibliography)

1939—H. R Creswick, M.A.

Scott Lecturer (Physics)

1938–39—Prof. M. Seigbahn, D.Phil., N.L. (Uppsala Univ.).
1939–40—Prof. P. S. M. Blackett, F.R S. (Manchester Univ.).

Stanton Lecturer (Philos. of Religion)

1937–40—Rev. H. H. Farmer, M.A. Pet. (to 30.9.40).

Hulsean Preacher

1938–39—Rev. J. K. Mozley, D.D. Pemb.

Lady Margaret's Preacher

1939—The Very Rev. E. G. Selwyn, B.D. Corp.

University Extension

Stipendiary Lectrs., apptd. by B. of Extra-mural Studies: P. L. Babington, M.A., LL.B. Joh., (Jas Stuart Lectr.), W. P. Baker, M.A. Jes., F. Lee, H. Plaskitt, M.A. Jes., H. H. Daisley, M.A. Chr.

THE COLLEGES

CHRIST'S COLLEGE. Founded 1505. Tel. No.: Cambridge 5094.

Master—Rev. C. E., Raven, M.A., D.D., *Regius Prof.* (*Divinity*).

Fellows

McLean, N., D.Litt. Ox., LL.D. Edin., M.A., F.B.A.
Rackham, H., M.A., *Lectr.* (*Classics*).
Haddon, A. C., M.A., Sc.D., F.R.S.
Campbell, S. G., M.A., *Lectr., U. Lectr.* (*Classics—Epigr. and Dialects*).
Marshall, F. H. A., C.B.E., M.A., Sc.D., F.R.S., *Dean, Reader* (*Agric. Physiol.*).
Saunders, J. T., M.A., *Sec. Genl. of the Faculties.*
Downs, B. W., M.A., *Tutor, Lectr.* (*Mod. and Med. Langs. and Engl.*), *Dir. Scandinavian Studies, U. Lectr.* (*English*).
Grose, S. W., M.A., *Tutor, Lectr.* (*Classics*), *Librarian, Prælector.*
Wyatt, T. C., O.B.E., M.A., *Lectr., U. Lectr.* (*Engin.*), *Bursar.*
Steen, S. W. P., M.A., *Lectr., U. Lectr.* (*Maths.*).
Steel, A. B., B.A. Ox., M.A., *Lectr., U. Lectr.* (*Hist.*), *Steward.*

Peck, A. L., M.A., Ph.D., *U. Lectr.* (*Classics*).
Rose, J. Holland, M.A., Litt.D., F.B.A.
Rastall, R. H., M.A., Sc.D., F.G.S., *Lectr.* (*Nat. Sciences*).
Snow, C. P., Ph.D., *Tutor*.
Trend, J. B., M.A., *Prof.* (*Spanish*).
Waddington, C. H., M.A., Sc.D., *U. Lectr.* (*Zool.*).
Booker, H. G., B.A., Ph.D.
Allberry, C. R. C., M.A.
Hope-Jones, A., M.A.
Davies, R. D., M.A., Ph.D., *U. Demr.* (*Engin.*).

CLARE COLLEGE. Founded 1326. Tel. No.: Cambridge 3454.

Master—G. H. A. Wilson, O.B.E., D.C.L. Durh., M.A. (to 30.9.39).

Fellows
Chadwick, H. M., D.Litt. Durh., LL.D. St. And., M.A., F.B.A., *Elrington and Bosworth Prof.* (*Anglo-Saxon*).
Thirkill, H., M.C., M.A., *President, Tutor and Lectr.* (*Phys. and Chem.*).
Harrison, W. J., M.B.E., M.A., *Bursar, Financial Tutor*.
Landon, J. W., M.B.E., M.A., *Lectr., U. Lectr.* (*Mech. Engin.*).
Telfer, Rev. W., M.C., M.A., D.D., *Dean, Asst. Tutor and Prælector, U. Lectr.* (*Dvinity*).
Godwin, H., M.A., Ph.D., *U. Lectr.* (*Bot.*).
Spooner, E. T. C., M.A., *U. Lectr.* (*Pathol.*), *Librarian*.
Hammond, N. G. L., M.A., *U. Lectr.* (*Classics*).
Jones, O. T., D.Sc. Wales, M.A., F.R.S., *Woodwardian Prof.* (*Geol.*).
Taylor, H. McC., M.A., Ph.D., *U. Lectr.* (*Maths.*), *Steward*.
Boyd, J. D., M.A.
Hutton, R. S., D.Sc. Manc., M.A., *Goldsmiths' Prof.* (*Metallurgy*).
Willmer, E. N., M.A., *U. Lectr.* (*Physiol.*).
Balme, D. M., M.A.
Barrer, R. M., Ph.D.
Reddaway, W. B., M.A., *Lectr.* (*Econ.*).
Metcalfe, G., B.A.

CORPUS CHRISTI COLLEGE. Founded 1352. Tel. No.: Cambridge 5018.

Master—Sir Will Spens, C.B.E., LL.D. Columbia, M.A., Chev. Lég. d'H.

Fellows
Pollock, Rev. C. A. E., M.A.
Pickthorn, K. W. M., M.A., Litt.D., M.P., *President, Lectr., U. Lectr.* (*Hist.*).
Clark-Kennedy, A. E., M.A., M.D., F.R.C.P.
Sanders, T. R. B., M.A., *Lectr., U. Lectr.* (*Engin.*), *Estates Bursar*.
MacCurdy, J. T., M.D. Johns H., M.A., Sc.D., *U. Lectr.* (*Psychopathol.*).
Charvet, P. E., M.A., *Lectr.* (*Mod. Langs.*), *U. Lectr.* (*French*), *Domestic Bursar*.
Carter, G. S., M.A., Ph.D., *Lectr.* (*Nat. Sci.*), *U. Lectr.* (*Zool.*), *Prælector*.
Lennard-Jones, J. E., D.Sc. Manc., Ph.D., F.R.S., *J. H. Plummer Prof.* (*Chem., Theoretical*).
Lee, H. D. P., M.A., *Lectr.* (*Classics*), *Tutor*.
Bury, J. P. T., M.A., *Lectr., U. Lectr.* (*Hist.*), *Dean of College, Librarian*.
Vincent, E. R. P., M.A. Ox. and Camb., D.Phil. Ox., *Prof.* (*Italian*).
Langdon-Brown, Sir Walter, M.D., F.R.C.P., *Emer. Prof.* (*Physic*).
Smyth, Rev. C. H. E., M.A., *Dean of Chapel*.
Davey, Rev. F. N., M.A., *Lectr.* (*Theol.*).
Roberts, R. P. F., M.A., LL.B.

DOWNING COLLEGE. Founded 1800. Tel. No.: Cambridge 5091.

Master—Admiral Sir Herbert W. Richmond, K.C.B., M.A., F.B.A. Downing Prof. of Laws of England—H. D. Hazeltine, LL.B. Harv., D.Jur. Berl., M.A., Litt.D., F.B.A.

Fellows

Berry, A. J., M.A., *U. Lectr.* (*Chem.*), *Prælector.*

Thomas, H. H., M.B.E., M.A., Sc.D., F.R.S., *Reader* (*Plant Morphol.*).

Whalley-Tooker, H. C., M.A. Ox. and Camb., LL.M., *Tutor, U. Lectr.* (*Law*).

Holmes, E. G., M.A., M.D., *Tutor, U. Lectr.* (*Biochem.*).

Cuttle, W. L., M.A., *Tutor, Dean and Librarian.*

Grantham, J., M.A., *Bursar and Steward.*

Verney, E. B., M.A., M.B., B.Ch., F.R.C.P., F.R.S., *Sheild Reader* (*Pharmacol.*).

Hammond, J., D.Sc. Iowa, M.A., F.R.S.

Leavis, F. R., Ph.D., *U. Lectr.* (*English*).

Cox, R. G., B.A., *Research Fellow.*

EMMANUEL COLLEGE. Founded 1584. Tel. No.: Cambridge 4239.

Master—T. S. Hele, O.B.E., M.A., M.D.

Fellows

Bennett, G. T., M.A., Sc.D., F.R.S.

Whitney, Rev. J. P., M.A., D.D., *Dixie Prof.* (*Eccles. Hist.*).

Head, Most Rev. F. W., M.C., M.A., B.D.

Wood, P. W., M.A., *Lectr., U. Lectr.* (*Maths.*), *Tutor.*

Wood, A., M.A., *Lectr., U. Lectr.* (*Physics*), *Tutor.*

Greenwood, L. H. G., M.A., *Lectr., U. Lectr.* (*Classics*).

Wright, G. J. Hornsby, D.S.O., M.A.

Brooks, F. T., M.A., F.R.S., *Prof.* (*Bot.*).

Jones, B. M., C.B.E., A.F.C., M.A., *Francis Mond Prof.* (*Aeronaut. Engin.*).

Gardner, R., M.C., M.A., *Bursar, U. Lectr.* (*Classics*).

Burnaby, Rev. H., M.A., *Dean, Lectr., U. Lectr.* (*Div.*).

Wallace, J. C., M.C., M.A., *Lectr.* (*Mech. Sci.*).

Welbourne, E., M.C., M.A., *Tutor, Lectr., U. Lectr.* (*Hist.*), *Prælector.*

Line, J., A.F.C., M.A., *Lectr.* (*Agric. and Bot.*), *U. Lectr.* (*Agric.*), *Steward.*

Carslaw, H. S., LL.D. Glas., M.A., Sc.D.

Bennett, H. S., M.A., *U. Lectr.* (*English*), *Librarian.*

Tilley, C. E., Ph.D., F.R.S., *Prof.* (*Mineral. and Petrol.*).

Norrish, R. G. W., Ph.D., Sc.D., F.R.S., *Prof.* (*Phys. Chem.*).

Grave, W. W., M.A., Ph.D., *Tutor, Lectr.* (*Mod. Langs.*), *U. Lectr.* (*Spanish*), *Proctor.*

Mansfield, W. S., M.A., *U. Lectr.* (*Agric.*).

Owst, G. R., Litt.D., *Prof.* (*Educ.*).

Research Fellows

Dollar, A. T. J., Ph.D.

Offler, H. S., M.A.

Blair, P. H., M.A.

Burges, N. A., Ph.D.

GONVILLE AND CAIUS COLLEGE. Founded 1348. Tel. No.: Cambridge 3275.

Master—J. F. Cameron, M.A.

Fellows

Buckland, W. W., D.C.L. Ox., LL.D. Camb., Edin., Harv., Paris, Louvain, Lyon, M.A., F.B.A., *President, Regius Prof.* (*Civil Law*).

Gardiner, J. S., M.A., F.R.S.

Punnett, R. C., M.A., F.R.S., *Balfour Prof.* (*Genetics*).

Stratton, F. J. M., D.S.O., O.B.E., M.A., *Prof.* (*Astrophysics*).

Brooke, Z. N., M.A., Litt.D., *Librarian, U. Lectr.* (*Hist.*).
McNair, A. D., C.B.E., M.A., LL.D.
Phear, H. W., M.A., *Prælector, U. Lectr.* (*Engin.*).
Debenham, F., O.B.E., M.A., *Prof.* (*Geog.*).
Cook, S. A., D.D. Aberd., D.Litt. Ox., M.A., Litt.D., F.B.A.
Bennett, E. K., M.A., *U. Lectr.* (*German*), *Senior Tutor.*
Tunnicliffe, H. E., M.A., *U. Lectr.* (*Physiol.*), *Tutor.*
Needham, N. J. T. M., M.A., Ph.D., Sc.D., *Reader* (*Biochem.*).
Oakeshott, M. J., M.A., *U. Lectr.* (*Hist.*).
Deas, H. T., M.A., *U. Lectr.* (*Classics*), *Tutor.*
Heywood, Rev. H. C. L., M.A., *Dean, U. Lectr.* (*Div.*).
Weller, E. P., M.A., *Bursar and Steward.*
Bowden, F. P., Ph.D., Sc.D., *U. Lectr.* (*Phys. Chem.*).
Powell, F. C., M.A., Ph.D., *U. Lectr.* (*Maths.*).
Wade, E. C. S., M.A., LL.D., *U. Lectr.* (*Law*), *Tutor, Coll. Registrary.*
Griffith, G. T., M.A., *Fac. Asst. Lectr.* (*Classics*).
Hulme, H. R., M.A., Ph.D.
Parker, A. A., M.A.
Lewis, W. B., M.A., Ph.D., *U. Lectr.* (*Physics*).
Greaves, R. I. N., M.A., M.B., B.Ch., *U. Demr.* (*Pathol.*).
Grierson, P., M.A., *Fac. Asst. Lectr.* (*Hist.*).
Skemp, J. B., M.A.
Chapman, V. J., M.A., Ph.D., *U. Demr.* (*Bot.*).
Ryle, J. A., M.A., M.D., F.R.C.P., *Regius Prof.* (*Physic*).
Jones, J. M., M.A.
Daub, D., Ph.D.
Hadley, P. A. S., M.A., Mus.D.

JESUS COLLEGE. Founded 1496. Tel. No.: Cambridge 2436.
Master—A. Gray, M.A.

Fellows
Foakes-Jackson, Rev. F. J., M.A., D.D.
Abbott, E., M.A.
Duckworth, W. L. H., M.A., M.D., Sc.D., *President, Bursar, Steward, Reader* (*Human Anat.*).
Elliott, C. A., M.A.
Mills, W. H., Sc.D. Tübingen, M.A., F.R.C.S., *Lectr.* (*Nat. Sci.*).
Quiller-Couch, Sir Arthur T., M.A., *King Edw. VII. Prof.* (*Engl. Lit.*).
Manning, B. L., M.A., *Snr. Tutor, Lectr., U. Lectr.* (*Hist.*).
Pars, L. A., M.A., *Lectr., U. Lectr.* (*Maths.*), *Prælector.*
Barnes, H., M.A., LL.B., *U. Lectr.* (*Law*).
Gardner-Smith, Rev. P., M.A., B.D., *Lectr.* (*Theol.*), *Dean, U. Lectr.* (*Div.*).
Sinker, A. P., M.A., *Tutor, Lectr., U. Lectr.* (*Classics*).
Thorpe, W. H., M.A., Ph.D., *Tutor, U. Lectr.* (*Entomol.*).
Tillyard, E. M. W., O.B.E., M.A., Litt.D., *Lectr., U. Lectr.* (*English*).
Gilbert, C. W., M.A., Ph.D., *U. Demr.* (*Physics*).
Green, A. E., M.A., Ph.D.
Guy, O. V., D.S.O., M.C., M.A., *Sec., U. Appointments Board.*
Dodd, Rev. C. H., M.A. Ox., Manc., Camb., D.D. Aberd., *Norris-Hulse Prof.* (*Div.*).
Brittain, F., M.A., *Lectr.* (*Mod. and Mediæval Langs.*), *Librarian.*
Percival, A. L., B.A.
Wilson, C. H., B.A.

KING'S COLLEGE. Founded 1441. Tel. No.: Cambridge 4411.
Provost—J. T. Sheppard, M.B.E., M.A., Brereton Reader and University Lecturer in Classics.

Fellows
Tilley, A. A., Litt.D. Manc., M.A.
Richmond, H. W., LL.D. St. And., M.A., F.R.S.
Wedd, N., M.A.

Brooke, Rev. Canon A. E., M.A., D.D., F B.A.
Reddaway, W. F., M.A.
Sills, H. H., M.A., *Asst. Tutor, Lectr. (Classics)*.
Barcroft, Sir Joseph, C.B.E., D.Sc. Belf., Harv., M.A., F.R.S.
Inglis, C. E., O.B.E., LL.D. Edin., M.A., F.R.S., *Prof. (Mechanical Sciences)*.
Pigou, A. C., M.A., F.B.A., *Prof. (Polit. Econ.)*.
Clapham, J. H., C.B.E., Litt.D. Camb., Leeds, Harv., M.A., F.B.A., *Vice-Provost*.
Keynes, J. M., C.B., LL.D. Columbia, M.A., F.B.A., *Bursar*.
Adcock, F. E., O.B.E., D.Litt. Durh., M.A., F.B.A., *Prof. (Anc. Hist.)*.
Gray, J., M.C., M.A., Sc.D., F.R.S., *Prof. (Zool.)*.
Milner-White, Rev. Canon E., D.S.O., M.A., *Dean and Chaplain*.
McCombie, H., D.S.O., M.C., M.A. Camb. and Aberd., Sc.D., *Asst. Tutor, Lectr. (Nat. Sci.), U. Lectr.* (Chem.).
Turner, L. B., M.A., *Asst. Tutor, Lectr. (Mech. Sci.), U. Lectr. (Engin.)*.
Durnford, H. G. E., M.C., M.A.
Lucas, F. L., M.A., *Lectr., U. Lectr. (English)*.
Ord, B., Mus.B., M.A., F.R.C.O., *Organist, U. Organist, U. Lectr. (Music)*.
Scholfield, A. F., M.A., *U. Librarian*.
Beves, D. H., M.A., *Lectr. (Mod. Langs.), U. Lectr. (French), Tutor*.
Braithwaite, R. B., M.A., *Lectr., Sidgwick Lectr. (Moral Philos.)*.
Shove, G. F., M.A., *Asst. Tutor, Lectr. Girdlers' Lectr. (Econ.)*.
Stockdale, D., Ph.D., M.A., *U. Lectr. (Chem.)*.
Dent, E. J., D.Mus. Ox., M.A., Mus.B., F.R.C.M., *Prof. (Music)*.
Hall, P., M.A., *Lectr., U. Lectr. (Maths.)*.
Rylands, G. H. W., M.A., *Steward, Asst. Tutor, Lectr., U. Lectr. (Eng.)*.
Balfour, R. E., M.A., *Lectr., U. Lectr. (Hist.)*.
Matthews, B. H. C., M.A., Sc.D., *Asst. Tutor, Lectr. (Nat. Sci.), Asst. Dir., Physiol. Res.*
Lucas, D. W., M.A., *Asst. Tutor, Lectr., U. Lectr. (Classics)*.
Ingham, A. E., M.A., *Asst. Tutor, Lectr., U. Lectr. (Maths.)*.
Kahn, R. F., M.A., *Lectr., U. Lectr. (Econ.), Bursar*.
Morris, G. C., M.A., *Asst. Tutor, Lectr., U. Lectr. (Hist.), Proctor*.
Saltmarsh, J., M.A., F.S.A., *Lectr., U. Lectr. (Hist.), Librarian*.
Wilkinson, L. P., M.A., *Dean, Lectr., U. Lectr. (Classics)*.
Darby, H. C., M.A., Ph.D., *U. Lectr. (Geog.), Ehrman Fellow*.
Salt, G., B.Sc. Alberta, Sc.D. Harv., Ph.D., *Stringer Fellow, Lectr., U. Lectr. (Nat. Sci.)*.
Watson, A. G. D., M.A.
Shire, E. S., M.A., *Bursar, Prælector, U. Demr. (Physics)*.
Tucker, G. M., M.A.
Clarke, M. L., M.A.
Turing, A. M., M.A.
Howarth, L., M.A., Ph.D., *Berry-Ramsay Fellow, U. Lectr. (Maths.)*.
Purdie, D., M.A., Ph.D.
Milburn, A. R., M.A.
Dixon, K. C., M.A., Ph.D.
Clayton, F. W., M.A., *Harris Fellow*.
Champernowne, D. G., M.A., *U. Lectr. (Statistics)*.
Giblin, L. F., D.S.O., M.C., M.A.
Pringle, J. W. S., M.A., *U. Demr. (Zool.)*.
Stead, G. C., B.A.
Harrison, K. P., M.A.
Plumb, J. H., Ph.D., *Ehrman Fellow*.

MAGDALENE COLLEGE. Founded 1542. Tel. No.: Cambridge 5057.
Master—A. B. Ramsay, M.A.

Fellows
Ramsey, A. S., M.A.
Vernon Jones, V. S., M.A., *Kipling Fellow, President, Lectr., U. Lectr. (Classics), Tutor, Prælector*.
Peel, T., M.A.

Gaselee, Sir Stephen, K.C.M.G., C.B.E., Litt.D. Liv., M.A.
Salter, F. R., M.A., *Lectr., U. Lectr.* (*Hist.*), *Tutor.*
Morshead, O. F., C.V.O., D.S.O., M.C., C.G., M.A.
King, W. B. R., O.B.E., M.A., Sc.D.
Clark, Rev. F. H. H., M.A., *Lectr.* (*Hist.*), *Dean and Chaplain.*
Richards, I. A., M.A., Litt.D., *Lectr.* (*Moral Sci.*), *U. Lectr.* (*English*).
Turner, F. McD. C., M.C., D.F.C., M.A., *Lectr.* (*Hist.*), *Coll. and Pepysian Librarian.*
Scott, F. R. F., M.A., *Lectr.* (*Classics*), *Tutor.*
Keilin, D., M.A., F.R.S., *Quick Prof.* (*Biol.*).
Babbage, D. W., M.A., Ph.D., *Lectr., U.Lectr.* (*Maths.*).
Green, F. C., M.A. St. And. and Camb., Ph.D. Cologne, D. de l'U. Paris, *Drapers' Prof.* (*French*).
Saunders, B. C., M.A., Ph.D., *Lectr.* (*Med., Nat. Sci.*), *U. Demr.* (*Chem.*).
Bennett, R. F., M.A., *Lectr.* (*Hist.*).
Pope, J. A., C.I.E., *Bursar and Steward.*

PEMBROKE COLLEGE. Founded 1347. Tel. No.: Cambridge 5086.

Master—Sir Montagu S. D. Butler, K.C.S.I., C.B., C.I.E., C.V.O., C.B.E., M.A.

Fellows
Whibley, L., M.A.
Bethune-Baker, Rev. J. F., M.A., D.D., F.B.A.
Minns, E. H., M.A., Litt.D., F.B.A., *President, Disney Prof.* (*Archæol.*).
Pennell, V. C., M.A., M.B., B.Chir., F.R.C.S., *Asst. Tutor, Lectr.* (*Biol. and Med.*).
Spittle, J. T., O.B.E., M.A., *Lectr.* (*Mech. Sci.*), *Asst. Tutor, U. Lectr.* (*Eng.*), *Treasurer.*
Wynn, Rev. H. E., C.G., M.A., *Tutor, Lectr.* (*Hist.*), *and Chaplain.*
King, B. E., M.A., LL.B., *Asst. Tutor, U. Lectr.* (*Law*), *Tutorial Bursar.*
Roberts, S. C., M.A.
Camps, W. A., M.A., *Lectr.* (*Classics*), *Librarian.*
Rowe, J. W. F., M.C., M.Sc. Lond., M.A., *Asst. Tutor, Lectr., U. Lectr.* (*Econ.*).
Wace, A. J. B., LL.D. Liv., M.A., *Laurence Prof.* (*Classical Archæol.*).
Hodge, W. V. D., M.A., F.R.S., *Lowndean Prof.* (*Astron. and Geom.*).
Sutherland, G. B. B. McI., Ph.D., *Lectr.* (*Physics*).
Willey, B., M.A., *Lectr., U. Lectr.* (*English*), *Prælector.*
Pascal, R., M.A., *Lectr.* (*Mod. Langs.*), *U. Lectr.* (*German*).
Dewey, Rev. M. B., M.A., *Dean.*
Habakkuk, H. J., B.A.

Other Lectrs.
Vulliamy, E. O., M.A. (*Mod. Langs.*).
Ziegler, C. H., M.A., LL.M. (*Law*).

PETERHOUSE. Founded 1284. Tel. No.: Cambridge 4256.

Master—W. H. V. Temperley, O.B.E., D.Litt. Durh., M.A., D.Litt., F.B.A., Professor of Modern History.

Fellows
Lubbock, R., M.A., *Tutor, Lectr., U. Lectr.* (*Mech. Sciences*), *Steward.*
Butterfield, H., M.A., *Lectr., U. Lectr.* (*Hist.*), *Librarian.*
Hallward, B. L., M.A., *Tutor, Lectr., U. Lectr.* (*Classics*), *Prælector.*
Barker, E., LL.D. Edin. and Harv., Litt.D., *Prof.* (*Polit. Sci.*).
Burkill, J. C., M.A., *Tutor, Lectr., U. Lectr.* (*Maths.*).
Sams, Sir Hubert A., C.I.E., M.A., *Bursar.*
Guthrie, W. K. C., M.A., *Lectr., U. Lectr.* (*Classics*).
Heard, Rev. R. G., M.A., *Dean and Chaplain.*
Postan, M. M., M.Sc. Lond., M.A., *Prof.* (*Econ. Hist.*).
Wormald, B. H. G., M.A.

QUEEN'S COLLEGE. Founded 1448. Tel. No.: Cambridge 4425.

President—J. A. Venn, M.A., Litt.D., Gilbey Lecturer in Agriculture.

Fellows

Wood, Rev. C. T., M.A., B.D., *Lectr.* (*Dvv., Hebrew*), *U. Lectr.* (*Dvv.*), *Dean, Chaplain.*

Cook, A. B., M.A., Litt.D., *Vice-President, Lectr.* (*Classics*), *Emeritus Prof.* (*Classical Archæol.*).

Laffan, R. G. D., M.A. Ox. and Camb., *Lectr., U. Lectr.* (*Hist.*), *Sr. Bursar.*

Sleeman, C. M., M.A., *Lectr.* (*Nat. Sci.*).

Browne, A. D., M.A., *Lectr., U. Lectr.* (*Mech. Sci.*).

Potts, L. J., M.A., *Tutor, Lectr., U. Lectr.* (*English*).

Maxwell, E. A., M.A., Ph.D., *Lectr.* (*Maths.*), *Jr. Bursar.*

Seltman, C. T., M.A., *Librarian, U. Lectr.* (*Classics*).

Tennant, P. F. D., M.A., *Lectr.* (*Mod. Langs.*), *Prælector.*

Ramsay, J. A., M.A., Ph.D., *Lectr.* (*Nat. Sci.*), *U. Lectr.* (*Zool.*), *Steward.*

Hart, Rev. H. St. J., M.A., *Chaplain.*

Bailey, H. W., M.A. Ox. and Camb., *Prof.* (*Sanskrit*).

McCullagh, G. P., M.D. Belf., M.A., *Tutor, Lectr.* (*Nat. Sci.*), *U. Demr.* (*Pathol.*).

ST. CATHARINE'S COLLEGE. Founded 1473. Tel. No.: Cambridge 5045.

Master—Rev. H. J. Chaytor, M.A., Litt.D.

Fellows

Jones, W. H. S., M.A., Litt.D., *President, Lectr., U. Lectr.* (*Classics*).

Newman, L. F., M.A., *Lectr.* (*Nat. Sci., Med., Agric.*), *Bursar.*

Portway, D., M.A., *Lectr.* (*Mech. Sci.*), *U. Lectr.* (*Engin.*), *Senr. Tutor.*

Withers, Sir John J., C.B.E., M.A., LL.D., M.P.

Steers, J. A., M.A., *Asst. Tutor, Lectr., U. Lectr.* (*Geog.*), *Dean.*

Henn, T. R., M.A., *Asst. Tutor, Lectr., U. Lectr.* (*English*).

Waddams, Rev. C. D., M.A., *Lectr.* (*Maths.*), *Librarian, Chaplain, Prælector, Steward.*

Rich, E. E., M.A., *Lectr., U. Lectr.* (*Hist.*), *Jnr. Dean.*

Williams, R. A., Litt.D. Dub., D.Lit. Belf., Ph.D. Leip., M.A., *Schröder Prof.* (*German*).

Hutton, J. H., M.A., *William Wyse Prof.* (*Social Anthropol.*).

ST. JOHN'S COLLEGE. Founded 1511. Tel. No.: Cambridge 5052.

Master—E. A. Benians, M.A.

Fellows

Larmor, Sir Joseph, D.Lit. Lond., LL.D. Glas., D.Sc. Ox., M.A., Sc.D., F.R.S.

Harker, A., LL.D. Edin. and McG., M.A., F.R.S.

Baker, H. F., LL.D. Edin., M.A., Sc.D., F.R.S.

Shore, L. E., O.B.E., M.A., M.D.

Sikes, E. E., M.A.

Blackman, F. F., D.Sc. Lond., M.A., F.R.S.

Glover, T. R., D.D. St. And., LL.D. Qu., McM. Glas., M.A., *Lectr.* (*Classics*), *U. Lectr.* (*Ancient Hist.*).

Cunningham, E., M.A., *Lectr., U. Lectr.* (*Maths.*).

Jeffreys, H., M.A., F.R.S., *Reader* (*Geophys.*).

Palmer, W. G., D.Sc. Lond., M.A., Sc.D., *Lectr., U. Lectr.* (*Chem.*).

Bartlett, F. C., M.A., F.R.S., *Prof.* (*Exper. Psychol.*).

Creed, Rev. J. M., M.A., D.D., *Ely Prof.* (*Divinity*).

Coulton, G. Gordon, Litt.D. Durh., M.A., Litt.D., F.B.A.

Engledow, F. L., C.M.G., M.A., *Drapers Prof.* (*Agric.*).

White, F. P., M.A., *Tutorial Bursar, Lectr., U. Lectr.* (*Maths.*).

Wilson, J. T., LL.D., M.B., Ch.M. Edin., M.A., F.R.S.
Briggs, G. E., M.A., F.R.S., *Lectr.* (*Bot.*), *Reader* (*Plant Physol.*), *Steward.*
Wordie, J. M, M.A., *Tutor, Lectr.* (*Geog.*).
Winfield, P. H., LL.D. Harv. and Camb., F.B.A., *Rouse Ball Prof.* (*Engl. Law*).
Yule, G. U., C.B.E., M.A., F.R.S., *Lectr.* (*Statistics*).
Charlesworth, M. P., M.A., *President, Lectr.* (*Classics*), *Laurence Reader* (*Classics—Anc. Hist.*).
Howard, Sir Henry F., C.S.I., K.C.I.E., M.A., *Snr. Bursar.*
Raven, Rev. E. E., M.A., *Dean, Prælector.*
Newman, M. H. A., M.A., *Lectr. U. Lectr.* (*Maths.*).
Previté-Orton, C. W., M.A., Litt.D., F.B.A., *Prof.* (*Mediæval Hist.*).
Guillebaud, C. W., M.A., *Tutor, Lectr., U. Lectr.* (*Econ.*).
Boys Smith, Rev. J. S., M.A., *Tutor, Lectr., U. Lectr.* (*Div.*).
Dirac, P. A. M., Ph.D., F.R.S. *Lucasian Prof.* (*Maths.*).
Cockcroft, J. D., M.A., Ph.D., F.R.S., *Jnr. Bursar, Lectr., U. Lectr.* (*Physics*).
Howland, R. L., M.A., *Tutor, Lectr., U. Lectr.* (*Classics*).
Brindley, H. H., M.A.
Redman, R. O., M.A., Ph.D.
Gatty, H. P. W., M.A., *Librarian, Lectr.* (*Hist.*).
Bailey, S. J., M.A., LL.M., *Lectr., U. Lectr.* (*Law*).
Goldstein, S., M.A., Ph.D., F.R.S., *Lectr., Stokes Lectr.* (*Maths.*).
Stephens, A. V., M.A., *U. Demr.* (*Aero. Engin.*).
Jackson, K. H., M.A.
Hollick, F. S. J., M.A., Ph.D., *Lectr., U. Demr.* (*Zool.*).
Baldwin, E. H. F., M.A., Ph.D.
Carmichael, H., Ph.D., *Lectr., U. Demr.* (*Physics*).
Mitchell, J. S., M.A., M.B., B.Chir., Ph.D.
Williams, G. Ll., M.A. Ph.D.
Appleton, E. V., LL.D. Aberd., D.Sc. Lond., M.A., F.R.S.
Davies, H. S., M.A., *Lectr., U. Lectr.* (*Eng.*).
Barraclough, G., M.A. Ox. and Camb., *Lectr., U. Lectr.* (*Hist.*).
Walker, E. A., M.A. Ox., Cape and Camb., *Vere Harmsworth Prof.* (*Imp. & Naval Hist.*).
Anderson, W. B., M.A., *Kennedy Prof.* (*Latin*).
Harris, H. A., D.Sc., M.D. Lond., M.A., *Prof.* (*Anat.*).
Offord, A. C., Ph.D.
Smithies, F., B.A., Ph.D.
Lyttleton, R. A., M.A., Ph.D.
Barron, D. H., Ph.D. Yale, M.A., *Lectr.* (*Physiol., Anat.*), *U. Lectr.* (*Anat.*).
Gatty, R. J., M.A., *Lectr.* (*Classics*).
Jopson, N. B., M.A., *Prof.* (*Compar. Philol.*).
Valentine, D. H., M.A., Ph.D. *U. Demr.* (*Bot.*).
Evans, G. C., M.A., *U. Demr.* (*Plant Physiol.*).
Daniel, G. E., B.A., Ph.D.
Sanders, H. G., M.A., Ph.D., *Lectr., U. Lectr.* (*Agric.*).

SIDNEY SUSSEX COLLEGE. Founded 1596. Tel. No.: Cambridge 5027.

Master—Rev. G. A. Weekes, M.A.

Fellows

Robson, H. C., M.A.
Mayall, R. H. D., M.A.
Wilson, C. T. R., C.H., LL.D. Aberd., D.Sc. Manc., M.A., F.R.S.
Pope, Sir William J., K.B.E., M.A., F.R.S., *Prof.* (*Chem.*).
Knox-Shaw, T., M.C., M.A., *U. Treasurer.*
Hackforth, R., M.A., *Lectr., U. Lectr.* (*Classics*).
Smith, Rev. B. T. D., M.A., D.D., *Tutor, Lectr.* (*Theol.*), *U. Lectr.* (*Div.*).

Passant, E. J., M.A., *Lectr., U. Lectr. (Hist.), Steward.*
Davenport, A. H., M.C., M.A., *Bursar, U. Lectr. (Engin.).*
Green, H. L. H., M.A., M.D., *Lectr. (Nat. Sci.), U. Lectr. (Anat.).*
Ratcliffe, J. A., M.A., *Lectr. (Nat. Sci.), U. Lectr. (Physics).*
Robinson, E. A. G., M.A., *Lectr., U. Lectr. (Econ.), Librarian.*
Welchman, W. G., M.A., *Lectr. (Maths.), Prælector, Taylor Librarian.*
Dee, P. I., M.A., *U. Lectr. (Physics).*
Angus, R. H., M.A., *Dean, U. Lectr. (Engin.).*
McCance, R. A., M.A., Ph.D., M.D., *Reader (Med.).*
Varley, G. C., M.A., *U. Demr. (Zool.).*
Thomson, D., M.A., Ph.D., *Research Fellow.*
Smail, R. C., B.A., *Research Fellow.*

TRINITY COLLEGE. Founded 1546. Tel. No.: Cambridge 3441.

Master—Sir Joseph J. Thomson, O.M., M.A., LL.D., Sc.D., D.Sc., Ph.D., F.R.S. (Prof. of Physics).

Fellows

Kirkpatrick, Very Rev. A. F., M.A., D.D.
Frazer, Sir James G., O.M., D.C.L. Ox., LL.D. Glas., M.A., Litt.D., F.B.A., F.R.S.
Duff, J. D., Litt.D. Durh., M.A.
Whitehead, A. N., D.Sc. Manc., M.A., Sc.D., F.R.S.
Dampier, Sir William C. D., M.A., Sc.D., F.R.S.
Innes, H. McL., M.A.
Cornford, F. M., M.A., Litt.D., *Laurence Prof. (Anc. Philos.).*
Harrison, E., LL.D. Glas., M.A., *Univ. Registrary.*
Lapsley, G. T., Ph.D. Harv., M.A.
Winstanley, D. A., M.A., *Vice-Master.*
Dykes, F. J., M.A.
Eddington, Sir Arthur S., O.M., LL.D. Edin., D.Sc., M.A., F.R.S., *Plumian Prof. (Astron. and Exper. Philos.).*
Littlewood, J. E., LL.D. St. And., D.Sc. Liv., M.A., F.R.S., *Rouse Ball Prof. (Maths.).*
Newall, H. F., D.Sc. Durh., M.A., F.R.S.
Hollond, H. A., D.S.O., O.B.E., M.A., LL.M., *Dean of College, Reader (Engl. Law).*
Robertson, D. S., M.A., *Regius Prof. (Greek).*
Hopkins, Sir F. Gowland, O.M., D.Sc. Lond., Leeds, Dub., Reading, M.A., Sc.D., F.R.S., *Sir W. Dunn Prof. (Biochem.).*
Simpson, Rev. F. A., M.A., *U. Lectr. (Hist.).*
Tennant, Rev. F. R., D.D. Camb. and Ox., M.A.
Butler, J. R. M., M.V.O., O.B.E., M.A., *Lectr., U. Lectr. (Hist.).*
Adrian, E. D., D.Sc. Harv., M.A., M.D., F.R.S., *Prof. (Physiol.).*
Fowler, R. H., M.A., F.R.S., *Plummer Prof. (Math. Physics).*
Robertson, D. H., Litt.D. Harv., M.A., F.B.A.
Burnaby, J., M.A., *Sr. Tutor.*
Stewart, Rev. H. F., M.A., D.D., *Dean of Chapel, Prælector, Reader (French).*
Taylor, G. I., M.C., D.Sc. Ox., M.A., F.R.S.
Nicholas, T. C., O.B.E., M.A., *Senr. Bursar.*
Aston, F. W., LL.D. Birm., D.Sc. Birm., Dub., M.A., Sc.D., F.R.S.
Lenox-Conyngham, Sir Gerald P., M.A., F.R.S., *Prælector, Reader (Geodesy).*
Kitson-Clark, G. S. R., M.A., *Lectr., U. Lectr. (Hist.), Tutor.*
Broad, C. D., M.A., Litt.D., F.B.A., *Knightbridge Prof. (Moral Philos.).*
Roughton, F. J. W., M.A., Ph.D., *Lectr. (Nat. Sci.), U. Lectr. (Physiol.).*
Dean, W. R., M.A., *Lectr., U. Lectr. (Maths.).*
Moore, G. E., LL.D. St. And., M.A., Litt.D., F.B.A., *Prof. (Philos.).*

Gow, A. S. F., M.A., *Tutor, Lectr., U. Lectr.* (*Classics*).
Duff, P. W., M.A., *Tutor, Lectr., U. Lectr.* (*Law*).
Nicholson, R. A., LL.D. Aberd., Litt.D., F.B.A.
Rattenbury, R. M., M.A., *Steward, Lectr., U. Lectr.* (*Classics*).
Trevelyan, G. M., O.M., LL.D. Edin., St. And., D.C.L. Ox., M.A., Litt.D., F.B.A., *Regius Prof.* (*Mod. Hist.*).
Sandbach, F. H., M.A., *Lectr., U. Lectr.* (*Classics*).
de Bruyne, N. A., M.A., Ph.D., *Lectr.* (*Mech. Sci*), *U. Demr.* (*Engin.*).
Pantin, C. F. A., M.A., Sc.D., F.R.S., *Lectr.* (*Nat. Sci.*), *Reader* (*Zool.*).
Evennett, H. O., M.A., *Lectr., U. Lectr.* (*Hist.*).
Knight, A. H. J., M.A., *Lectr.* (*Mod. Langs.*), *U. Lectr.* (*German*).
Besicovitch, A. S., D.Sc. Lond., M.A., *Lectr., U. Lectr.* (*Maths.*).
Mann, F. G., D.Sc. Lond., Ph.D., Sc.D., *Lectr.* (*Nat. Sci.*), *U. Lectr.* (*Chem.*).
Hardy, G. H., M.A., F.R.S., *Sadleirian Prof.* (*Pure Maths.*).
Wilson, A. H., M.A., *Lectr., U. Lectr.* (*Maths.*).
Black, M., M.A., *Lectr.* (*Nat. Sci.*), *U. Lectr.* (*Geol.*).
Hamson, C. J., M.A., LL.M., *Lectr., U. Lectr.* (*Law*).
Heilbronn, H. A., M.A.
Wisdom, A. J. T. D., M.A., *Lectr.* (*Moral Sci.*), *U. Lectr.* (*Moral Phil.*).
Gilson, H. C., M.A.
Rothschild, Lord, M.A., Ph.D.
Hinks, D. A. G., M.A., *Junr. Bursar.*
Melville, H. W., Ph.D.
Feather, N., Ph.D., *Lectr.* (*Nat. Sci.*), *U. Lectr.* (*Physics*).
Price, M. H. L., M.A.
Trendall, A. D., M.A.
Hodgkin, A. L., B.A., *Lectr.* (*Nat. Sci.*), *U. Demr.* (*Physiol.*).
Paterson, T. T., M.A.
Moule, Rev. A. C., Litt.D.
Gough, G. S., M.A., *Lectr.* (*Mech. Sci.*).
Logan, D. W., B.C.L. Ox., M.A., *Lectr.* (*Law*).
Bamford, C. H., M.A., Ph.D.
Kiernan, V. G., M.A.
Leggett, D. H. A., B.A.
Morrison, J. S., B.A.
Bragg, W. L., O.B.E., Sc.D. Dub., M.A., F.R.S., F.Inst.P., N.L., *Cavendish Prof.* (*Physics*).
Rushton, W. A. H., Ph.D., *U. Lectr.* (*Physiol.*).
Vyvian, J. M. K., B.A.
Bauer, D. J., B.A.
Love, E. R.
Price, W. C.
Grant, M., B.A.

TRINITY HALL. Founded 1350. Tel. No.: Cambridge 5047.

Master—H. R. Dean, M.D., Professor of Pathology (Vice-Chancellor).

Fellows
Rendell, W. R., M.A.
Angus, Rev. C. F., M.A., *Vice-Master, Perceval Maitland Laurence Reader* (*Classics*), *Librarian.*
Hayes, R. A., M.A., *U. Lectr.* (*Engin.*).
Oliver, D. T., M.A., LL.D. Belf., LL.M., *Librarian.*
Rideal, E. K., M.A., F.R.S., *J. H. Plummer Prof.* (*Colloid Sci.*).
Crawley, C. W., M.A., *Asst. Tutor, U. Lectr.* (*Hist.*).
Turner, J. W. C., M.C., M.A., *Bursar, Steward, U. Lectr.* (*Law*).
Clarke, L. C. G., M.A.
Gutteridge, H. C., M.A., LL.M., K.C., *Prof.* (*Compar. Law*).
Wansbrough-Jones, O. H., M.A., Ph.D., *Tutor.*
Elvin, H. L., M.A.
Ellis Lewis, T., Ph.D., *U. Lectr.* (*Law*).
Fleming, Rev. W. L. S., M.A., *Dean and Chaplain.*
Drury, A. N., M.A., M.D., F.R.S., *Huddersfield Lectr.* (*Special Pathol.*).

SELWYN COLLEGE. Founded 1882. Tel. No.: Cambridge 4407.

Master—Rev. G. A. Chase, M.C., M.A., Univ. Lecturer in Divinity.

Fellows

Borradaile, L. A., M.A., Sc.D.
Williams, W. N., M.A., LL.B.
Marsh, Rev. F. S., M.A., *Lady Margaret's Prof.* (*Div.*).
Perrett, G. B., M.A., *Lectr., U. Lectr.* (*Hist.*), *Bursar.*
Durrant, P. J., M.A., Ph.D., *Tutor, Lectr.* (*Nat. Sci.*), *Prælector.*
Blyth, Rev. A. C., M.A., *Vice-Master, Tutor, Precentor, Lectr.* (*Theol.*).
Murray, J. O. F., M.A., D.D.
Woodward, F. H., M.A., *Asst. Bursar, Lectr.* (*Maths.*).
Phillips, C. W., M.A., *Librarian.*
Sartain, W. J., M.A., *Dean, Lectr.* (*Classics*).
Walker, J. C., M.A., *Lectr.* (*Hist.*).
Forster, L. W., M.A. *Lectr.* (*Mod. Langs.*).

FITZWILLIAM HOUSE: NON-COLLEGIATE STUDENTS. Established 1869. Tel. No.: Cambridge 4779. Censor—W. S. Thatcher, M.C., M.A.; Asst. Censor, Bursar and Chaplain—Rev. W. Harvey, M.A.; Resident Director of Studies in Hist.—C. J. B. Gaskoin, M.A.; Director of Studies in Nat. Sci.—R. C. Evans, M.A., Ph.D.

Supervisors of Studies. *Agriculture*: R. Ede, M.A. *Biochemistry*: T. W. Birch, Ph.D. *Botany*: *Chemistry*: P. Maitland, Ph.D. *Classics*: B. F. C. Atkinson, M.A., Ph.D.; W. J. Sartain, M.A. *Economics*: L. Alston, M.A. *English*: B. Willey, M.A. *Geography*: The Censor. *Geology*: A. G. Brighton, M.A. *History*: C. J. B. Gaskoin, M.A.; Rev. W. Harvey, M.A. *Law*: C. H. Ziegler, M.A., LL.M. *Mathematics*: H. A. Webb, M.A. *Mechanical Sciences*: C. R. G. Cosens, M.A.; R. S. Ball, M.A. *Medical Studies*: E. G. Holmes, M.D. *Mediæval and Modern Languages*: W. W. Grave, M.A., Ph.D.; J. Grace, Ph.D.; Lilian E. Whitehouse, M.A. *Mineralogy*: R. C. Evans, M.A., Ph.D. *Moral Sciences*: A. J. T. D. Wisdom, M.A. *Physics*: G. Stead, M.A. *Theology*: supervision arranged after interview. *Zoology*: Sidnie M. Manton, M.A., Ph.D., Sc.D.

WOMEN'S COLLEGES recognized by the University:

GIRTON COLLEGE. Founded 1869. Tel. No.: Cambridge 76219.

Mistress—Miss H. M. Wodehouse, Ph.D. Birm., M.A.

Directors of Studies: H. Bibas, M.A. (Mod. and Med. Langs.); H. M. Cam, M.A., Litt.D. (Law); M. L. Cartwright, M.A. (Maths.); Mrs. Hollond, Ph.D. Col. (Econ.); N. C. Jolliffe, M.A. (Classics); M. G. Jones, M.A. (Hist.); S. M. Manton, M.A., Ph.D., Sc.D. (Nat. Sci.); M. G. Lloyd Thomas, M.A. (Engl.); H. G. Wanklyn, M.A. (Geog.).

Lectrs.: *Chem.*: M. L. Tomlinson, Ph.D. Ox., M.A. *Classics*: N. C. Jolliffe, M.A. *Econ.*: Mrs. Hollond, Ph.D. Col. *English*: M. G. Lloyd Thomas, M.A.; M. C. Bradbrook, M.A., Ph.D. *Hist.*: M. G. Jones, M.A.; H. M. Cam, M.A., Litt.D. *Maths.*: M. L. Cartwright, M.A.; B. Swirles, M.A., Ph.D. *Mod. and Med. Langs.*: K. T. B. Butler, M.A.; H. Bibas, M.A. (French). *Nat. Science*: S. M. Manton, M.A., Ph.D., Sc.D.

Bursar—F. M. Smith, M.A. Junior Bursar—K. M. Robertson, M.A. Librarian—H. I. McMorran, M.A., F.L.A. Secy.—K. M. Peace, M.A. Asst. Tutor and Registrar—K. M. E. Murray, B.A., B.Litt. Ox. Registrar of the Roll—P. K. Leveson, M.A.

NEWNHAM COLLEGE. Founded 1871. Tel. No.: Cambridge 2478.

Principal—Miss J. P. Strachey, M.A. Vice-Principal—A. C. Davies, D.Sc. Lond., M.A.

Tutors—E. M. Chrystal, M.A. (Clough Hall); H. J. Pybus, M.A. Ox. (Sidgwick Hall); Mrs. H. E. Palmer, M.A. (Peile Hall); A. Robertson, M.A. (Old Hall).

Directors of Studies: Mrs. F. C. Bartlett (Moral Sci.); E. M. Chrystal, M.A. (Theol.); A. C. Davies, D.Sc. Lond., M.A. (Nat. Sci.); D. A. E. Garrod, B.Sc. Ox., D.Sc. Philadelphia and Boston, M.A. (Archaeol. and Anthropol. A.); M. E. Grimshaw, M.A. (Maths.); M. Mann (Mod. Langs.); J. B. Mitchell, M.A. (Geog.); Mrs. H. E. Palmer, M.A. (Archit.); H. J. Pybus, M.A. Ox. (Hist.); H. R. Robinson, M.A. (Econ.); Mrs. D. Thacker, M.A. (Med.); J. Toynbee, M.A. (Classics); E. E. H. Welsford, M.A. (English).

Lectrs.: *Classics*: J. Toynbee, M.A. *English*: E. E. H. Welsford, M.A., A. D. M. Hoare, M.A. Aberd., Ph.D. *Geog.*: J. B. Mitchell, M.A. *Hist.*: H. J. Pybus, M.A. Ox., C. B. A. Behrens, B.A. Ox. *Maths.*: M. E. Grimshaw, M.A., M. D. Kennedy, M.A. *Mod. Langs.*: M. Mann, M. Beare (German). *Nat. Sciences*: A. C. Davies, D.Sc. Lond., M.A., M. R. Brown, M.A., Ph.D. (Biol.), Asst. Lectr.

Bursar—M. D. Kennedy, M.A. Librarian—G. Woodward, B.A. Lond. Registrar of the Roll—Mrs. H. E. Palmer, M.A. Junior Bursar—E. M. Crystal, M.A. Steward—Mrs. M. S. McFie.

GENERAL INFORMATION

The legislative and executive authority of the Univ. is vested in the REGENT HOUSE, which comprises those Univ. Officers, Fellows of Colls., and others, who are concerned with its teaching and administrative work. A meeting of the Regent House is called a *Congregation*.

There is a right of appeal against a decision of the Regent House, on the motion of at least one-third of its members, to the SENATE, which consists of graduates of six or seven years' standing from their first term of residence, who have taken a degree of Doctor or Master, or the degree of Bachelor of Divinity. In order to be successful an appeal must be sustained by a majority prescribed by statute. The Senate elects the Chancellor and certain other officers, confers degrees, and holds meetings for the discussion of proposals.

Changes of statute can be made by the Univ. with the approval of the Privy Council and Parliament.

Many executive duties, and the duty of sanctioning the submission of resolutions (called *Graces*) to a Congregation, are entrusted to the *Council of the Senate*, which is elected by the Regent House.

The titular presiding officer at a Congregation, and the Chairman of the Council, is the Chancellor, who is by custom a non-resident distinguished in public life. His duties are in fact performed by the Vice-Chancellor, who is a Head of a College, appointed annually, in theory by the Regent House, in practice by the Council. It is customary for the Vice-Chancellorship not to be held for more than two years in succession by one person.

There are numerous *Boards* and *Syndicates* for dealing with the various branches of University business: the most important of them are the *General Board of the Faculties*, whose duty it is to advise the Univ. as to educational policy and to supervise and co-ordinate the work of the Faculties, and the *Financial Board*, whose duty it is to supervise the finance of all spending departments.

There are twenty Faculties, a Faculty being a body of persons furthering the study of a subject or group of subjects. The organization of teaching, research, and examinations in the various subjects is in the hands of the several Faculty Boards, subject to the control of the General Board. A Faculty Board is in part composed of members elected by the Faculty. Some of the Faculties are divided into Departments, under a Head, generally a Professor, who is responsible for the management of his Department.

For an outline of the statutes which became operative in 1926, v. *Yearbook* 1932, p. 66.

The INCOME of the Univ. is derived from the endowments of specific posts, from general endowment (though to a small extent only), from the fees of students, from the statutable contributions of Colls., and from a Treasury Grant.

DISCIPLINE outside the walls of the Colls. is maintained by the Proctors.

The Univ. TEACHING OFFICERS are the Professors, Readers, Univ. Lecturers, Univ. Demonstrators, and Asst. Directors of Research. They, as well as most of the administrative officers, are required to join the Federated Superannuation System for Univs. The retiring age is 65, but 60 (with the possibility of extension to 65) for women Univ. Lecturers.

The COLLEGES are self-governing corporate bodies distinct from the Univ., owning and managing their separate property, the corporators being the Head and Fellows. Their powers are, however, limited by their statutes, which cannot be altered by them without notice to the Univ. and approval by the Privy Council. The functions of the Colls. in regard to students are to provide lodging, corporate life, and personal tuition, while the function of the Univ. is to provide public instruction by means of lectures and demonstrations, examinations leading to degrees, and facilities for research. The affairs of the Colls. are, however, closely interwoven with those of the Univ. Most of the Fellows of Colls. are Univ. officers, indeed the statutes require that a certain proportion of the Fellowships of each Coll. shall be held by Univ. officers. And each Coll. is required by statute to contribute a certain fraction of its income to the funds of the Univ., the scale of contribution being graduated according to the wealth of the College.

The Colls. also maintain Fellowships for the furtherance of research, and a large number of Scholarships. The title of scholar is awarded on purely intellectual grounds, but, as at Oxford, no Coll. emolument other than an allowance for rooms is paid to an undergraduate scholar unless he satisfies the Coll. that his circumstances justify the payment.

NON-COLLEGIATE STUDENTS reside in licensed lodgings or in "Houses" recognized by the Non-Collegiate Students' Board. Such students may, by becoming members of Fitzwilliam House, obtain opportunities for taking part in communal life (dining in Hall, belonging to athletic clubs, etc.) similar to those enjoyed by members of Colleges.

WOMEN STUDENTS. Subject to the condition that the joint number of women students receiving instruction in the Univ. shall not exceed five hundred, the students of the women's Colls. (Girton and Newnham) are admitted to instruction and examinations in the Univ. and to the titles of degrees, including research degrees. Women who have received, or are qualified to receive, titles of degrees share with men graduates, under the Representation of the People Acts 1918 to 1928, the privilege of voting for the election of the two Burgesses who represent the Univ. in the House of Commons. Women are eligible for all Univ. teaching offices and for membership of Faculties and Faculty Boards, but

cannot become members of the Senate or Regent House. From 1872 women were informally admitted to Tripos examns. in the Univ., and from 1881 have been formally admitted to the Previous Examn., the Tripos examns., and certain examns. in Med. and Music. They were subsequently admitted to the courses and examns. for the Diplomas in Agric., Horticulture, Forestry, Geog., and Education. In Oct. 1921 the Grace admitting them to titular degrees was passed. Under the New Statutes in Oct. 1926 women became eligible for all Univ. teaching offices, and in the following year were enabled to compete on the same footing as men for Univ. Studentships, Scholarships, and Prizes, except where specially excluded. Since 1934 they have been admitted to all courses of study alike.

ADMISSION. *See* Appendix I.

NON-MEMBERS OF THE UNIVERSITY. A teacher of subjects pertaining to a Faculty or Dept., or a person pursuing research upon such subjects, may be admitted to courses of instruction by the Chairman of the Faculty or the Head of the Dept., paying such fees, if any, as may be determined in each case. In some special cases the approval of the Council of the Senate is required.

A candidate for a Diploma or Certificate which is open to non-members may attend courses leading thereto, paying, in addition to the fees proper to the courses, a single fee of a guinea and a half.

Under the same conditions as to fees, other non-members may attend courses by leave of the Council of the Senate, normally not for more than two terms. Applicants, before making their arrangements to come to Cambridge, should inform the Registrary of their scholastic or academic status, subjects of study, proposed length of sojourn, and reasons for not joining the Univ. or one of the Women's Colleges.

If it is doubtful which of the preceding paragraphs is relevant, application should be made to the Registrary.

INCORPORATION. Students who before admission as members of this Univ. have kept terms by *bona fide* residence at Ox. or Dub. (Trinity College) are, subject to certain provisos, allowed terms corresponding to those which they have so kept; a graduate of Ox. or Dub. (Trinity College) who took a degree or degrees after having duly qualified himself therefor not only by having passed the examns., etc., required, but by having kept his terms by residence in his own Univ., may be admitted on certain conditions to the same degree or degrees in Camb. Women graduates of Ox. or Dub. (Trinity College) may be admitted by incorporation to the title of the same degree or degrees in Camb. By leave of the Oxford authorities a term or terms needed for an Oxford degree may be kept at Cambridge.

INTERCOLLEGIATE INDIAN STUDENTS' COMMITTEE: Secy., R. B. Whitehead, M.A., 22 Fitzwilliam St.

TERMS. In order that a term may be counted towards qualifying for a degree, a student must reside in Cambridge (*i.e.* within a circle of 2½ miles radius from Gt. St. Mary's Church) during three-fourths of the term. Full terms begin.: 1938–39—Oct. 7, Jan. 16, Apr. 18; 1939–40—Oct. 10, Jan. 15, Apr. 19; end: 1938–39—Dec. 5, Mar. 16, June 9; 1939–40—Dec. 8, Mar. 15, June 10.

DEGREES. B.A., M.A.; M.Litt., Litt.D.; M.Sc., Sc.D.; B.D., D.D.; LL.B., LL.M., LL.D.; M.B. and B.Chir., M.Chir., M.D.; Mus.B., Mus.M., Mus.D.; Ph.D.

ARTS. The qualifications for the B.A. are: (i.) 9 terms' residence; (ii.)

passing or being exempted from the *Previous Examn.*; (iii.) passing the examns. for the Ordinary Degree or a Tripos examn. or examns.

Exemption from (i.) to the extent of 3 terms can be obtained by students entitled to the privileges of *affiliation* (v. App. I.).

(ii.) The *Previous Examn.* includes Latin or Greek, one other language, Maths., and English. Subject to certain provisos, natives of Asia or Africa who are not of European parentage may substitute papers in Arabic, Chinese, Sansk., or Pali for the Latin papers. For details and exemptions, see Appendix I.

(iii.) Ordinary Degree: (*a*) the General Examn. (which comprises a number of subjects) and a Special Examn. in one of the following subjects: Div., Engl. Lit., Econ., Law, Rural Econ., Military Studies, Psych., Physics, Chem. Or (*b*) the Examns. in *Agriculture* and allied subjects. Or (*c*) the Examns. in *Architectural Studies*. Or (*d*) the Examns. in *Engineering Studies*.

Certain combinations of (*a*), (*b*), (*c*), and (*d*) are allowed, and also certain combinations of parts of (*a*) with parts of the course for the M.B. or the Mus.B., or with parts of a Tripos course.

Honours Degree: obtained by passing in one or more of the following Triposes: Archæological and Anthropological, Classical, Economics, English, Geog., Hist., Law, Maths., Mech. Sciences, Mod. and Med. Langs., Moral Scs., Nat. Scs., Oriental Langs., Theol.

A Bachelor may be admitted Master of Arts at the end of six years from the end of his 1st term, provided that not less than 2 yrs. have elapsed from his admission as B.A.

DIVINITY. A graduate proceeds to the B.D. when he is of not less than five years' standing from his first degree, either (1) by submitting an original dissertation composed by himself on some subject connected with Biblical Criticism, Exegesis, or History, or with the Nature and Grounds of Christian Belief, or with Dogmatic Theology, or with the study of other Religions in relation to the Christian Religion, or with Ecclesiastical History, Literature, or Antiquities, or with the Philosophy of Religion, or (2) by specifying his published works on one or more of these subjects. He is required to satisfy the Degree Committee, either by his dissertation, etc., or otherwise, that he possesses a competent knowledge of Christian Theology. A B.D. of 3 yrs.' standing proceeds to the D.D. by submitting published works or a printed dissertation on the same subjects as those for the B.D.

LAW. A student who has kept 9 terms and obtained Hons. in both parts of the Law Tripos, or Hons. in some other Tripos and subsequently Hons. in either part of the Law Tripos, is entitled to proceed to the degree of B.A. To qualify for the LL.B. it is necessary to pass the LL.B. examn. after having kept 9 terms and obtained hons. in Pt. I. or Pt. II. of the Law Tripos, or passed in either Part at the hons. standard, or taken the degree of B.A. and qualified for practice as a barrister or solicitor in England or Ireland, or as an advocate or law agent in Scotland. (For an Affiliated Student these requirements may be modified.) A LL.B. may, not less than 6 years after the end of his 1st term and not less than 2 years since his admission, ask leave to submit a dissertation on some branch of law or of the hist. or philosophy of law, and, if such dissertation is approved, he may be admitted to the Degree of LL.M. Any graduate may be admitted LL.D., not less than 8 yrs. after admission to his 1st degree, if he has published one or more original contributions, approved for the purpose, to the advancement of the science or study of Law.

MEDICINE. The qualifications for the M.B. and B.Chir. are: (i.) 9 terms'

residence; (ii.) passing (or exemption from) the *Previous Examn.* (iii.) 5 yrs.' Med. study; (iv.) passing in due order several examns. (of which one must be a Tripos examn.). Admission to certain examns. is conditnl. on proof of diligent attendance on prescribed courses of lectures and practical work. Admission to the Final M.B. is conditnl. on proof of 5 yrs.' Med. study, of which 3 yrs. must have been spent in hospl. practice, and diligent attendance on prescribed courses of instruction and practical work. A graduate of the Univ., on submission of a thesis or dissertation, may be admitted M.D. when 8 yrs. have elapsed since admission to his first degree. A candidate for the M.Chir. Degree must pass an examn. to which, if Master of Arts, he may be admitted after he has become legally qualified to practise Surgery. A candidate who is not a Master of Arts may be admitted to the examn. 2 years after completing all the requirements for the B.Chir. Degree; but 3 years must have elapsed since he was admitted B.Chir. before admission to the M.Chir. Degree. Addenbrooke's Hospl., containing over 300 beds and large out-patient depts., is available for clinics. Overseas examns. exempting from the 1st M.B. (except Part IV.): examns. for B.Sc. of Univ. of S. Africa (subject for subject); 1st yr. examn. for M.B. and Ch.B. or B.Sc. of Univ. of Cape Town or Witwatersrand; 1st examn. for med. degrees in Univ. of Adel., Melb., or Syd., or 1st examn. in Science in Univ. of Queensland, W. Aust., or Tasm.

MUSIC. The qualifications for the Mus.B. include (i.) 9 terms' residence; (ii.) passing (or exemption from) the *Previous Examn.*; (iii.) passing an examn. in two parts whereof the first may not be taken before the 2nd term, nor the 2nd before the 8th term. The Mus.M. may be taken after at least 3 yrs. have elapsed since admission as Mus.B. and after passing the prescribed examn.

Graduates of not less than 8 years' standing from admission to their first degree who have given proof of distinction in musical composition may be candidates for the Mus.D.

The Ph.D. v. *infra* Research Students.

The Sc.D. and LITT.D. Either degree is open to a graduate of not less than 8 years' standing from admission to his first degree. These degrees are granted in consideration of published original contributions to the advancement of Science or Learning.

DIPLOMAS. In addition to degrees, which are for the most part conferred only on its own members, the Univ. grants 2 Diplomas which are open to other persons—in Geog. (till 1939), and in Med. Radiology and Electrology (till 1941); and 9 which are restricted, or almost restricted, to members of the Univ.—Agric. Sc., Anthrop., Architect., Class. Archæol., Comparative Legal Studies, Economics, Education, General Archæol., and Oriental Langs., the diplomas in Anthrop., General Archæol., and Orient. Langs. being open to non-members in certain exceptional circumstances only. *Certificates* of competent knowledge of certain foreign langs., open to members of the Univ. only, are awarded. *Certificates of Proficiency* in Agriculture, Estate Management, Architectural Studies, and Engineering Studies are awarded to those who proceed to the Ordinary B.A. by way of the examn. in those subjects. A *Divinity Testimonium* is granted on proof of diligent attendance at 6 courses of lectures.

The *Joint Coal Mining Diploma* of the Univs. of Cambridge and Birmingham enables Cambridge graduates in Engineering to shorten by one year the period of training at Birmingham otherwise required. It is approved by the Board of Trade.

The Diploma in Anthropology may be obtained after residence for one

term only by *Officers of any of the Public Services of the Empire*, not ordinarily resident in the British Isles, having exceptional qualifications, or by *Missionaries who have served abroad*.

The Diploma in General Archæology may be obtained, after instruction in Cambridge during an academical year, by persons approved in virtue of archæological experience in the field or of other qualifications.

The Univ. makes provision for training candidates for the Higher CIVIL SERVICES; Indian Civil Service selected candidates; candidates for administrative appointments in Tropical Africa and other branches of the Civil Service, and candidates for service under the Govt. of the Sudan. To meet the wants of Civil Service candidates a series of lectures supplementary to the courses for regular Tripos candidates has been arranged by the Board of I.C.S. Studies, and by a Committee of Associated Colls. Detailed information may be obtained from the Director of Civil Service Studies, appointed by this Committee (C. J. B. Gaskoin, M.A., Fitzwilliam House), from O. V. Guy, D.S.O., M.C., M.A., Lensfield House, Lensfield Road, who is Secy. to the Appointments Board, or from H. L. Garrett, M.A. (St. John's College), Secy. to the Board of I.C.S. Studies.

A system of MILITARY INSTRUCTION has also been organized by the Univ. The Board of Milit. Studies (Secy.—F. M. Edwards, M.A. Qu., 50 Lensfield Rd.) are in direct communication with the War Office and responsible for the nomination of Camb. Univ. candidates for Regular commissions in H.M. Forces. See Appendix IV. 1.

AVIATION. Official recognition has also been given to the University Air Squadron. The Squadron, membership of which is strictly limited, is primarily a technical organization affiliated to the University and under the direction of the Air Ministry; but practical flying instruction is also given to members. See Appendix IV. 1. Other students, with the permission of their parents or guardians and also of their Tutors, are permitted to fly, under certain restrictions, as members of a Civil Flying Club.

The TRAINING OF TEACHERS is under the management of the Teachers' Training *Syndicate*, established in 1878 (Secy.—F. E. E. Harvey, M.A.; address—17 Brookside, Cambridge).

Examns. for the *Certificate* in Education, held in June and Dec., are open to students of certain colleges, and to graduate teachers who have had at least a year's experience in a Secondary or other approved School, if their attainments are satisfactory.

Students of the *University Training College* (Prof. of Educ.—G. R. Owst, Litt.D. Emm.); address—17 Brookside, Cambridge, devote their first 3 yrs. to reading for the B.A. degree, the 4th to professional training. Several exhibitions are offered to intending schoolmasters. Students who have not previously been attached to the college may also take a post-graduate course of training.

There is also the *Cambridge Training College for Women* (*Post-graduate*) (Principal—Miss H. Dent, M.A. Girton), which admits women who have graduated at any British Univ. to a course of professional training in preparation for work in all types of schools. Recognized students receive a grant from the Board of Education, and graduates in receipt of the four years' grant at any Univ. may be transferred for their 4th year to this College after compliance with the necessary formalities. Total number of students, about 55.

For HOLY ORDERS in the Church of England Cambridge graduates are trained at Ridley Hall, founded in 1879 (Principal—Rev. J. P. S. R. Gibson, M.A.,

F.I.A. Sid. Suss.); or at Westcott House, founded in 1881 (Principal—Rev. Canon B. K. Cunningham, O.B.E., M.A. Trin.). Other theological colleges recognized by the Univ. as Houses of Residence for students: Westminster Coll., founded 1844 (Principal—Rev. W. A. L. Elmslie, B.D. Chr., Presbyterian); Cheshunt Coll., founded 1768 (President—Rev. J. S. Whale, M.A. Magd., mainly Congregational); St. Edmund's House, founded in 1896 (Rector —Rev. J. E. Petit, M.A. Chr., Roman Catholic); and Wesley House, founded 1924 (Principal—Rev. R. N. Flew, B.D. Trin. H., Methodist). Cheshunt and Westminster Colleges were moved from Cheshunt and London in 1905 and 1899 espectively.

RESEARCH STUDENTS. Each application for admission must be made to the Secretary, and accompanied by (i.) a diploma or other certif. of graduation at a Univ.; (ii.) a statement as to the course of research which the applicant desires to pursue, together with evidence of qualification, attainments and previous study; (iii.) a statement of the degree, if any, for which the applicant wishes to be a candidate; (iv.) a certif. or declaration of the applicant's age at the date of application. In exceptional cases requirement No. (i.) may be dispensed with. The application is not granted unless it appears (*a*) that the course of research can conveniently be pursued within the Univ., and (*b*) that the applicant has produced adequate evidence that he is qualified to enter upon the proposed course. Before admission he is required to become a member of a College, or a Non-Collegiate Student.

Secretary of the Board of Research Studies: J. T. Saunders, M.A. Chr. Correspondence should be addressed to the Secretary at the Univ. Registry, Cambridge.

A Research Student pursues his course under direction and supervision, prescribed by the Degree Committee of the Faculty concerned. If he should wish to obtain a degree elsewhere he may, after he has pursued his studies in the Univ. for not less than 2 terms with regularity and industry, receive a *Certificate* to that effect signed by his supervisor and by the V.C. After a course extending over 2 yrs. and residence in the Univ. for at least 6 terms (Cambridge graduates, 3 terms) after admission as a Research Student, the M.Sc. or M.Litt. degree may be obtained. For the Ph.D. degree (v. p. 13) 3 yrs. are ordinarily required. One year of the 3-yrs.' course may be remitted if the applicant satisfies the Board of Research Studies that he or she has done at least a yr.'s satisfactory research work before admission to Cambridge Univ. For any degree six terms' residence is essential.

UNIVERSITY SCHOLARSHIPS open to graduates number about 60, and are worth about £6000 p.a. In almost every instance they are open only to persons who have graduated in this Univ., or have kept a certain number of terms. For details see *Student's Handbook* (price 7s. 6d., Univ. Press), which also gives details of *Entrance* Scholarships.

For scholarships and grants open to others than graduates of the Univ. *see* App. II.

DOMINION AND COLONIAL EXHIBITIONS. In view of the difficulties experienced by Dominion and Colonial students in competing for scholarships and exhbns. in the open examn. held each Dec., Trinity Coll. is prepared to consider applications made by Dominion and Colonial Univs. on behalf of their students for the grant of exhbns.; value £40 a yr. either more or less according to holder's financial circumstances. *See also* App. II. Candidates must apply through the principal authority of their Univ. Applications for next award must reach the Senior Tutor, Trinity Coll., by May 1, 1939, from whom particulars should be obtained.

EXPENSES. Since each student, in addition to Univ. fees, pays bills to a College (or to the Non-Collegiate Body), and the charges vary from College to College, a concise general estimate gives only a rough indication, which may be supplemented by particulars obtained from the College of the student's choice; but Chap. IV. of *The Student's Handbook to Cambridge*, 1938–39, gives copious detail, and contains the following passage:

"The total annual expenditure of a student, *exclusive of initial, occasional, and additional expenses*, may be fairly estimated at about £270, although on the one hand it is possible by great care to live upon less, and on the other hand a larger expenditure will often enable the student to obtain greater advantages from a University career."

The items on which this estimate is based, including "guesses" as to personal expenses, are: Univ. fees (capitation tax), £5 : 5s.; Lecture fees, £18; College fees, £34 to £50 (tuition, £21 to £27; establishment charge, £12 to £15; College dues, £1 to £8); board and lodging, £80 to £182 (rooms and service, £30 to £54; food expenses, £41 to £107; fuel, £6 to £12; laundry, £3 to £9); personal expenses, £51 to £112 (books, travelling, tradesmen—including tailor, etc., clubs, and societies). The excluded initial expenses are caution-money, College admission fee (£2 to £5), matricn. £5, furniture, linen, china, etc., £15 to £65, and (£2 to £4 : 10s.) cap, gown, and surplice. The "occasional" fees are for examns. £8 : 10s., and degree fees, £3. The "additional" expenses (which may be heavy, especially if much private tuition has to be allowed for) are additional lecture and laboratory fees, long vacation expenses, and private tuition.

THE UNIVERSITY APPOINTMENTS BOARD is concerned with appointments of all kinds (Secy.—O. V. Guy, D.S.O., M.C., M.A.; Asst. Secs.—A. L. Maycock, M.C., M.A. (Education); W. N. C. van Grutten, O.B.E., M.C., M.A. (Engineering)). Address: Lensfield House, Lensfield Rd. *Telegrams*—Appointments, Cambridge. Telephone—54242.

1938.—591 permanent appointments, including: Government Services, 95; Educational, 247 (38 temporary); Commerce and Industry, 240; Professional Clerkships, etc., 9. In addition, technical training in vacations was found for 85 men.

CAMBRIDGE UNIVERSITY WOMEN'S APPOINTMENTS BOARD. Secy.—Miss S. Campbell, M.A., 4 Brick Court, Temple, London, E.C.4. Interviews by appointment only.

The UNIVERSITY LIBRARY contains over 1,500,000 vols., including many early printed books, and over 10,000 MSS. and 200,000 maps. It is entitled under the Copyright Act to a copy of every book published in Gt. Britain and Ireland, and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following remarkable collections: Acton library (mediæval, ecclesiastical, and modern history, 60,000 vols.); W. G. Aston's Japanese library; Sir T. Wade's Chinese books; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.); the Paul Hirsch collection of music. The annual budget is about £30,000.

Each College has a library. Some are interesting survivals of mediæval rooms kept in the state in which they were originally arranged. Among special collections in College libraries are: in Christ's College the Robertson Smith collection of Oriental books, many of which are connected with Semitic literature; in Gonville and Caius College 800 MSS., 60 *incunabula*, heraldic collections of Dr. John Knight (17th cent.), 1300 books and controversial pamphlets of Dr. Wm. Branthwaite (d. 1619), Norfolk and Suffolk topographical and genealogical works; in Girton College small collections of Oriental books,

chiefly Sanskrit (Cowell) and Hebrew (Frere—printed catalogue), and Botany books and pamphlets (Ethel Sargant).

DEPARTMENTAL LIBRARIES. In the Old Schools (formerly the University Library) are now housed the following: The Squire Law Library; the Seeley Historical Library; the English Library; the Modern Languages Library (including the Beit Library of German books); the Moral Sciences Library. The Marshall Library of Economics is in Downing Street. The Oriental Languages Library (including the Bendall Sanskrit books) and the Music School are in what was formerly the Balfour Laboratory in Downing Place. In the Arts School are the library of the Philosophical Society and the Mathematical Institute.

MUSEUMS. (*a*) Art and Archæology.

The Fitzwilliam Museum (Director—L. C. G. Clarke, M.A. Trin. H.) contains a large and valuable collection of paintings, drawings, engravings, Egyptian and Greek antiquities, ceramics, coins, illustrated MSS., autographs, early printed books, and music.

The Museum of Classical Archæology (Curator—Prof. A. J. B. Wace, M.A. Pemb.) contains a collection of casts illustrating the history of Greek sculpture.

The Museum of Archæology and Ethnology (Curator—T. T. Paterson, M.A. Trin.) has a large and increasing collection, including Saxon urns and ornaments, casts of Central American monuments, Egyptian stone implements, unique Fijian collections, and numerous others resulting from scientific expeditions by Cambridge men.

(*b*) Science.

The Museums of Science include museums, laboratories, lecture-rooms, classrooms, and workshops for Agric., Biochem., Bot., Chem., Engin. (including Engine-room, Elasticity, Elec., and Hydraulic Labs., and drawing office), Exper. Physics, Hum. Anat., Ethnol., Medicine, Mineralogy, Path., Physiol., Psychol., Zool., and Comp. Anat.

The Museum of Zoology (Director—F. R. Parrington, M.A. Sid.) includes very complete series of vertebrates and invertebrates, a series of invertebrata from Naples, valuable collection of Polyzoa, extensive collection of marine animals from Pacific and Indian Oceans, and an important collection illustrating heredity, protective resemblance, and mimicry.

The Sedgwick Museum of Geology (Curator—A. G. Brighton, M.A. Chr.) includes a fine collection of British and foreign building stones lately added to the Economic section.

LABORATORIES AND FIELD STATIONS.

The Zoological Laboratory, in addition to providing for the ordinary work of the Dept. and for research, affords peculiar facilities for the study of diseases of animals and of economic entomology.

Low Temperature Station for Research in Biochemistry and Biophysics (Superintendent—F. Kidd, M.A. Joh.). *See* App. III. A. I. (f.).

The Botanic Garden (Director—H. Gilbert-Carter, M.B., Ch.B. Edin., M.A. Trin.).

The Scott Polar Research Institute (Director—Prof. F. Debenham, O.B.E., M.A. Cai.). *See* App. III. A. VI.

Institute for Research in Genetics, Storey's Way. Adjoining is the *Small Animal Breeding Institute* (Director—Prof. R. C. Punnett, M.A. Cai., F.R.S.). *See* App. III. A. I. (d.)

The Molteno Institute of Biology and Parasitology (Director—Prof. D. Keilin, M.A. Magd.). *See* App. III. A. I. (c).

Research Institutes attached to the School of Agriculture:

Animal Nutrition Institute. There is a branch laby. at the Univ. Farm (Director—W. S. Mansfield, M.A. Emm.). *See* App. III. A. I. (d).

Plant Breeding Institute (Director—H. Hunter, M.A. Cath.). *See* App. III. A. I. (a).

Virus Diseases of Potatoes Section (Director—R. N. Salaman, M.D. Trin. H.).

Horticultural Research Station (Director—D. Boyes, M.A. Emm.). *See* App. III. A. I. (b).

Institute of Animal Pathology (Director—Prof. T. Dalling, M.A., M.R.C.V.S.). *See* App. III. A. I. (*c*).

A SCHOOL OF PATHOLOGY was endowed by the Rockefeller Foundation (£133,000) and Ernest Gates (£33,000) in 1924.

The OBSERVATORY (Director—Sir A. S. Eddington, O.M., M.A. Trin., F.R.S., Plumian Prof. of Astr.), about a mile from Cambridge, has a meridian circle of 8¼ in. aperture; the Northumberland equatorial 12 in. aperture; the Sheepshanks photographic equatorial 12¼ in.; a number of smaller instruments, and a good library.

The SOLAR PHYSICS OBSERVATORY (Director—Prof. F. J. M. Stratton, D.S.O., M.A. Cai.) standing close to the older Obs. has the Newall telescope (25 in.), McClean cœlostat and spectrograph, Huggins telescopes, etc. The Univ. has taken over charge (for the Govt.) of the Solar Physics Obs. formerly at South Kensington, receiving a grant-in-aid, v. also App. III. A. VI.

The OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School, and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the Matricn. examns. of London, the Northern and other English Univs., and the Preliminary examns. of various professional bodies, etc. The Lower Certif. examn. will not be held after 1939. The Regulations of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries: at Cambridge—T. G. Bedford, M.A., Brook House, Trumpington St.; at Oxford—C. H. Wilkinson, M.A., 74 High Street.

The CAMBRIDGE LOCAL EXAMINATIONS, instituted in 1858, are held at 434 centres in the U.K. and 212 overseas, notably in India, Ceylon, Malaya, W. Indies and Africa. Approx. number of candidates in 1938: Home 12,107, Overseas 17,196. Regns. for the School and the Higher School Certificates and Junr. examns. and for Certif. of Proficiency in English (for foreign students) may be obtained from Syndicate Buildings, Cambridge.

Local Examns. were held in December 1937 at 407 centres, including 58 in India and Ceylon, 57 in Straits Settlements and Malay States, 31 in Africa, 22 in W. Indies, 3 in China, 4 in S. America, 4 in Netherlands Indies, and others in Aden, the Bahamas, Bermuda, British Honduras, British North Borneo, Fiji, Germany, Gibraltar, Italy, Japan, Manchuria, Mauritius, New York, Portugal, Sarawak, Seychelles and Switzerland. The number of candidates was 16,930. In July 1938 the examns. were held in 419 centres, of which 59 were overseas. The number of candidates was 11,965.

UNIVERSITY EXTENSION Lectures are delivered and classes in connexion with them held by a staff of about 40 itinerant lecturers in various towns in different parts of England, under a system initiated in Cambridge in 1873. The characteristic features of the method of teaching adopted are (i.) the Lecture presenting the subject in broad outline, (ii.) the Class, held for about

an hour before or after the lecture, at which questions are given out by the lectr., (iii.) the essays written on these questions, and (iv.) the examination. A Certificate is awarded to those whose work during the course is satisfactory and who pass the examination. A *Travelling Library* is provided for each course. The work is under the management of the BOARD OF EXTRA-MURAL STUDIES, on which there are, in addition to members of the Senate, representatives of the Local Centres' Union and the Workers' Educational Assn. In 1937–38, 40 full courses of 10 or 12 lectures and 10 short courses of 6 lectures were given, attended by 3585 persons.

The SUMMER MEETING is held in Cambridge in even years (alternating with Oxford). In odd years there is a Vacation Course for Foreign Students (primarily intended for students whose mother tongue is not English) and Summer Courses in History and English Literature (primarily intended for English-speaking students). These will be held in 1939. Both courses will be of six weeks' duration, in July and August, and will be divided into fortnightly periods, so that students may attend for 2, 4 or 6 weeks.

TUTORIAL CLASSES are arranged in connexion with the Workers' Educational Assn. They are managed by a Committee appointed by the Board of Extra-Mural Studies, including all the members of the Board nominated by the W.E.A. Attendances, 1937–38 : men 338, women 313. The Tutorial Classes Summer School is held every year for 2 or 3 weeks. In 1938 it was held for 2 weeks in July and August and was attended by 48 students.

Six extra-mural students were resident in Cambridge for the year.

COURSES IN RURAL AREAS. The Board in co-operation with the Local Education Authority and other bodies arrange short courses of lectures in the villages of Cambridgeshire. Similarly the Board have entered into co-operation with the Local Education Authority and the Workers' Educational Association for the development of adult education in the rural parts of Bedfordshire, Essex and the Isle of Ely. Resident tutors supervise the work of the Board in Bedfordshire, Cambridgeshire, Essex, Norfolk and Northamptonshire.

Full particulars of all the above obtainable from the Secretary (G. F. Hickson, M.A.), Board of Extra-Mural Studies, Stuart House, Cambridge.

PUBLICATIONS. The *Camb. Univ. Reporter*, weekly during term, 3d. a copy, terminal subs. 2s. 6d., or by post 4s. 6d. ; *Ordinances*, 1936 (fresh editions every 3 or 4 yrs.), 15s. ; *The Student's Handbook*, annually in early autumn, 7s. 6d. : *Facilities for Study and Research ; Compendium of Univ. Regns.*, 9d. ; *Statutes of the Univ. and Passages from Acts of Parlt.*, 5s. ; *Endowments of the Univ.*, 1904, 10s. 6d. ; *Alumni Cantabrigienses*, Ed. J. and J. A. Venn (to the year 1751, four volumes), £7 : 10s. each vol. ; *Matricns. and Degrees* (a list of all those who have entered the Univ.) : 1544–1659, 45s. ; 1851–1900, 15s. ; 1901–1912, 12s. 6d. ; the *Calendar*, annually (Nov.), 15s. ; the *Historical Register*, 20s. *Historical Register Supplement* : 1911–20, 8s. 6d. ; 1921–30, 12s. 6d. ; *Index to Tripos Lists*, 1748–1910, 10s. ; *An Introduction to Cambridge*, by S. C. Roberts, 2s. 6d. ; *The War List of the Univ. of Cambridge*, 1914–1918, 7s. 6d. ; *University Extension : a Survey of Fifty Years*, by W. H. Draper, 3s. 6d. ; *University Ceremonies*, by H. P. Stokes, 7s. 6d. ; *The Cambridge Pocket Diary*, annually in Oct., 2s. 6d., with pencil, 3s. 6d. These, and the books mentioned below, Mullinger's and Willis and Clark's, may be had from the Cambridge Univ. Press, Bentley House, 200 Euston Rd., London, N.W.1, and from all booksellers.

Histories, etc. : (*a*) *Annals of Cambridge*, by C. H. Cooper (5 vols.) ; (*b*) *The Univ. of Cambridge*, by J. B. Mullinger (3 vols. to the later 17th cent.) ; (*c*)

College Histories—Robinson's Series, various authors; Dent's Series—King's, St. John's, Trinity, 2s. each; (*d*) *Cambridge and its Colleges*, A. Hamilton Thompson; (*e*) *Cambridge*, T. D. Atkinson and J. W. Clark; (*f*) *Architectural History of Cambridge*, R. Willis and J. W. Clark, 4 vols.; (*g*) *The Charm of Cambridge*, by S. C. Roberts.

Magazines (unofficial): The *Cambridge Review*, the *Granta*, weekly during term.

THE YEAR 1937–38

BENEFACTIONS. The Fitzwilliam Museum, bequests: L. D. Cunliffe, very many important objects of art; C. E. Byas, porcelain, etc.; Sir Gervase Beckett, a vase; Mrs. H. A. Longman, her samplers; Miss E. M. Evans, £500. Gifts: E. E. Barron, £1250, drawings and books; J. Charrington, Mrs. W. D. Dickson. Empire Cotton-Growing Corporation, grant of £1000 p.a. to School of Agriculture till 1943. Dr. A. H. Evans, gift of his series of British birds' eggs to Museum of Zoology. Anon., further £500 to Experimental Zoology Fund. J. W. O. Hamilton, an album, and £500 for prize for radio research. Iron and Steel Industrial Research Council, grant of £500 for research on corrosion fatigue. P. A. Molteno, bequest of £3000 to Molteno Institute. Rockefeller Foundation, £11,360 for development of Experimental Psychology. Dame Mary G. Sandys, bequest of £7000 for Museum of Classical Archæology. Prof. E. J. Rapson, bequest of £3000 for encouragement of study of Sanskrit, Pali and Avestan. South African Government, set of the Union "Hansard," to be continued.

BUILDINGS. Contract for new Austin Wing of Cavendish Laboratory has been placed. Extension of Psychological Laboratory is being built. Laboratory has been added to School of Geography. New building for Anatomy has been completed.

NEW POSTS. Professorship of Education, Lectureship in Education.

OTHER DEVELOPMENT. A Dept. of Education.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES, ETC. Sir Maurice Amos, "The Constitution of the United States of America." Prof. M. Bataillon (Sorbonne), "Erasmus." Dr. W. Berendsohn (late of Hamburg), "Fifty Years of Scandinavian Influence on German Literature (1878–1928); "Zur Geschichte der altgermanischen Heldendichtung." Prof. C. W. Blegen (Cincinnati), "Troy in the Light of the Recent Excavations." Prof. M. Bloch (Paris), "Some Economic and Psychological Aspects of Feudalism." Dr. C. A. Boethius (Göteborg), "Architecture and Art of the Roman Empire." Prof. E. Cartan (Paris), "The Geometrical Theory of Spinors." Dr. H. B. G. Casimir (Leiden), "Magnetism and Very Low Temperatures." Don L. Cernuda, (Madrid), "Spanish Poetry since Juan Ramón Jiménez." Sir Walter Citrine, "The British Empire." Dr. A. P. H. A. De Kleijn (Amsterdam), "Some Remarks on Vestibular Physiology." Prof. K. Doi (Tohoku), "Japanese Myth." R. Elmhirst (Scottish Marine Biological Station), "Life on the Sea Shore." Dr. O. Faber, "The Aesthetics of Engineering Design." Dr. R. M. Ferry (Harvard), "Certain Aspects of Protein Chemistry." W. L. Fleisher, "Recent Developments in Air Conditioning." Prof. S. Flexner, "Epidemic Poliomyelitis and Epidemic Encephalitis." R. G. Hawtrey, "A Century of Bank-Rate." H. Jenkinson (Public Record Office), "The Present State of the Study of English Legal Records." Prof. G. Kittel, "The Making of the Theologisches Wörterbuch zum Neuen Testament." Prof. F. H. Knight (Chicago), "The Theory of Capital." Sir P. P. Laidlaw, "Virus Diseases and

Viruses." Canon A. L. Lilley, "The Paradox in Religion." Prof. I. G. Llubera (Belfast), "Oriental Story-telling in Medieval Literature, with special reference to Spain." Rev. A. Manson, "The Theology of St. Thomas Aquinas." P. Martino (Algiers), "Tendances essentielles du symbolisme français." Hon. H. Nicolson, "Some Types of English Biography." Prof. W. Pauli, "Contributions to the Theory of Field Quantization." M. Sadleir, "Bibliographical Aspects of the Victorian Novel." Dr. C. F. A. Schaeffer, "Ras Shamra and the Aegean and Mycenean World." Prof. L. L. Schücking (Leipzig), "Annette von Droste-Hülshoff." Prof. M. Siegbahn (Stockholm), "The Spectroscopy of the Soft X-ray and Extreme Ultra-Violet Regions." P. Simpson, "The Reform of English Spelling: the Evidence of History and the Poets." Dr. D. V. Thompson (London), "Techniques of Wall Painting." Dr. H. Thompson (Toronto), "The Results of the Excavations in the Agora at Athens." Prof. G. Thomson (Birmingham), "The Vote of Athena." Prof. A. I. Virtanen (Helsinki), "Nitrogen Fixation." Dr. F. Waismann (Vienna), "Problems of Communication," "The Nature of Philosophical Problems and their Relation to Language," "Guides to a Philosophical Investigation," "Logical Structures of Hypotheses," "Meaning and Verification."

DEATHS. 1937: E. J. Rapson, Emeritus Prof. of Sanskrit, Fellow of St. John's; Baron Rutherford of Nelson, Cavendish Prof. of Experimental Physics, Fellow of Trinity; W. H. Bansall, of St. John's; G. F. C. Gordon, of Trinity, Superintendent of Univ. Engineering Workshops; Rev. Dr. H. A. Watson, of Peterhouse; A. Hutchinson, Emeritus Prof. of Mineralogy, Fellow and formerly Master of Pembroke, Hon. Fellow of Christ's; Dr. G. H. F. Nuttall, Emeritus Prof. of Biology, Fellow of Magdalene, Hon. Fellow of Christ's.

1938: W. H. Parker, of Trinity; Dr. C. B. Rootham, Univ. Lectr. in Faculty of Music, Fellow, Lecturer and Organist of St. John's; Alda M. Milner-Barry, Fellow and Tutor of Newnham; T. H. D. La Touche, of St. John's; The Duke of Devonshire, of Trinity, High Steward; Dr. H. Bond, Fellow and formerly Master of Trinity Hall; J. T. Baines, of Trinity; W. E. Jordan, Fellow of Selwyn, formerly Univ. Lectr. in History; Dr. E. W. Brown, Hon. Fellow and formerly Fellow of Christ's.

RESIGNATIONS AND RETIREMENTS. *Lectrs.*: F. J. Dykes (Engin.); C. G. Clark (Statistics); Hon. J. C. S. Runciman (Hist.); J. R. Hicks (Economics and Politics); J. D. Boyd (Anat.), on appt. as Prof. of Anat., London Hosptl. Med. College; G. Stead (Physics as applied to Medical Radiol.); H. H. Sills (Classics); C. H. Ziegler (Law); J. E. E. Craster (Geog.). *Demrs.*: J. S. Turner (Bot.), on appt. as Prof. of Bot., Univ. of Melbourne; S. D. Elliott (Path.); J. H. Lochhead (Zool.). *Asst. Dirs. of Res.*: J. D. Bernal (Crystallog.), on appt. as Prof. of Physics, Birkbeck College; J. F. Brock (Med.), on appt. as Prof. of Med., Univ. of Cape Town.

HONORARY DEGREES. *LL.D.*—Rt. Hon. Frederic Herbert Maugham, Baron Maugham of Hartfield, B.A., of Trinity Hall, the Lord High Chancellor; Rt. Hon. Robert Alderson Wright, Baron Wright of Durley, M.A., of Trinity College, Lord of Appeal in Ordinary; Rt. Hon. Sir John Anderson, G.C.B., G.C.I.E., M.P., formerly Governor of Bengal; Rt. Hon. Robert Anthony Eden, M.P., formerly Secretary of State for Foreign Affairs. *Sc.D.*—Francis Peyton Rous, of Rockefeller Institute for Medical Research, New York. *Litt.D.*—Wilhelm Kroll, formerly Professor of Classical Philology in Univ. of Breslau; Thomas Stearns Eliot.

STUDENTS (excluding 101 men and 13 women not members of Univ.) whose homes are in British Isles: men 4664, women 462; not in British Isles but

within British Empire: m. 390, w. 35; in foreign countries: m. 278, w. 9. Total: full-time, 5952.

RESEARCH STUDENTS, December 1937, 384, of whom 164 were Cambridge graduates. Their distribution among the various fields of research was as follows: Aeronautics 2, Agric. 22, Anglo-Saxon 2, Anthropol. 6, Archæol. 2, Astrophysics 3, Biochem. 18, Bot. 28, Chem. 43, Classics 10, Crystallog. 2, Divinity 7, Econ. 15, Engin. 9, English 22, Geog. 3, Geol. 4, Geophysics 2, Hist. 26, Law 6, Maths. 43, Mineral. and Petrol. 6, Mod. Langs. 9, Moral Sci. 10, Music 1, Oriental Langs. 3, Parasitol. 2, Pathol. 3, Physics 37, Physiol. 7, Psychol. 6, Zool. 25.

DEGREES. B.A., 1565; M.A., 845; Ph.D., 71; M.Litt., 4; LL.B., 53; M.Sc., 10; Sc.D., 7; M.B., 52; M.D., 21; M.B., B.Chir., 159; M.Chir., 3; Mus.B., 6; Mus D., 1; B.D., 5. Titles of degrees conferred on women during academical year: B.A., 115; M.A., 76; M.B., B.Chir., 3; M.B., 3; Ph.D., 8; M.Sc., 1; M.Litt., 2; Litt.D., 1.

UNIVERSITY OF DURHAM

Founded 1832

VISITOR—THE LORD BISHOP OF DURHAM.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY, K.G., M.V.O., D.C.L., LL.D.

VICE-CHANCELLOR—J. F. DUFF, M.A. Camb., M.Ed. Manc.

PRO-VICE-CHANCELLOR—Rt. Hon. LORD EUSTACE PERCY, M.A., D.C.L. Ox.

HON. TREASURER—Sir JOSEPH REED, D.C.L.

REGISTRAR—W. S. ANGUS, M.A. Ox., LL.B. Liv.

ASSISTANT-REGISTRAR—H. C. BUTTERFIELD, M.A. (Com.) Manc.

UNIVERSITY OFFICES

46 North Bailey, Durham. Tel.: Durham 900.
23 St. Thomas' Street, Newcastle upon Tyne, 2. Tel.: Newcastle 21886.

(Correspondence should be addressed to the Durham office unless otherwise indicated.)

DIVISIONS OF THE UNIVERSITY

Durham Colleges: see p. 81.
King's College, Newcastle upon Tyne: see p. 85.

AFFILIATED COLLEGES

A. Colleges in which students may matriculate, keep terms, and pass examns., and so qualify without coming to England for the B.A., M.A., B.D., D.D., B.C.L., and D.C.L. degrees:

CODRINGTON COLLEGE, BARBADOS. Trustees (under the will of Christopher Codrington, who died in 1710)—The Society for the Propagation of the Gospel; Visitor—The Lord Bishop of Barbados; Principal—Rev. J. C. Wippell, M.A., D.D.; Prof. of Theology—Rev. R. J. Siderfin, B.D.; Prof. of Classics—P. W. A. Cheney, B.A.; Prof. of Medicine—E. B. Carter, M.D., C.M.

FOURAH BAY COLLEGE, SIERRA LEONE. Founded in 1827 by the Church Missionary Society. In 1918 the Wesleyan Missionary Society became associated with the C.M.S. in the control of the College. Visitor—The Bishop of Sierra Leone; Deputy Visitors—The Chief Justice, the Colonial Secretary; Principal—Rev. E. H. Roberts, M.A.; 4 Tutors and 3 Occasional Lecturers.

B. SUNDERLAND TECHNICAL COLLEGE. Founded in 1901. By the Durham University Act of 1908 this College was to be affiliated in the Schools of Engineering and Electrical Engineering when the equipment and staff should be deemed adequate. The affiliation took place in 1930, and in 1931 certain members of the staff were accorded the status of "Recognized Teachers"

in the University. The College is represented on Senate and on the Board of the Faculty of Applied Science. Principal—E. R. Verity, B.Sc., A.R.C.S.

ASSOCIATED COLLEGES

Students may take in these Colleges courses extending over three years, which qualify for the L.Th. Nine terms kept in one of these Colleges, after passing the Matriculation Examination, may be counted in lieu of six of the terms required for the B.A., if the student has obtained the L.Th.

St. Aidan's, Birkenhead; St. Andrew's, Oyo, Nigeria; St. Augustine's, Canterbury; the Bible Churchmen's Missionary Coll., Clifton; Chichester; Clifton, Bristol; Dorchester; Edinburgh; Highbury; Jamaica; Lichfield; Lincoln; Oak Hill Coll., Southgate, N. 14; Queen's Coll. (St. John's, Newfoundland); Salisbury; Warminster; Bishop Wilson School, Isle of Man; Queen's Coll., Birmingham.

GENERAL INFORMATION

The University was established in 1832. The College of Medicine, founded in Newcastle in 1834, was associated with the University first in 1852 and more closely in 1870. The Durham College of Physical Science, later Armstrong College, was founded in 1871 in Newcastle as a part of the University. The reconstitution of 1908 brought the Durham Colleges, the College of Medicine, and Armstrong College into a closer relationship. The reconstitution of 1937 carried the process further, establishing a central financial control. It also merged the two Newcastle Colleges in King's College, Newcastle upon Tyne.

The University now consists of the Durham and Newcastle Divisions, v. *infra*. Three colleges elsewhere are affiliated to it and eighteen other colleges are associated with it for study in Theology, v. *supra*.

LIBRARIES. See under the Divisions.

DEANS OF FACULTIES—*Theology*: Rev. E. G. Pace; *Arts*: Professor W. L. Renwick; *Medicine*: Professor R. B. Green; *Science*: Professor P. J. Heawood; *Applied Science*: J. Morrow; *Music*: Rev. C. S. Wallis; *Commerce*: Professor D. T. Jack; *Law*: T. K. Johnston.

ADMISSION. See Appendix I.

DEGREE COURSES. B.A., B.Sc. (in Sci. or Applied Sci.), B.Com., 3 yrs. (for Honours, 3 or 4 yrs.); a general Honours degree in Science is conferred; Evening students may proceed to B.Com. after 4 yrs.' course. LL.B., 3 yrs.; B.Arch., 5 yrs.; M.B., B.S., 5 yrs. of Med. study (3 yrs. at least in Med. School at Newcastle); B.D.S., 5 yrs.

HIGHER DEGREES. B.D., 9 terms. D.D., 10 yrs. from B.A., 5 yrs. from B.D. M.A., 9 terms from B.A., 6 terms from B.Arch.; M.Litt., 2 yrs.; M.Ed., 2 yrs.; D.Litt., 10 yrs. from B.A.; B.C.L., 6 terms from B.A.; D.C.L., 10 yrs. from B.A. M.D., or M.S., 2 yrs. from M.B., B.S.; D.Ch., 3 yrs. after registration as med. practitioner; B.Hy., 2 yrs. after registration; D.Hy., 2 yrs. from B.Hy.; M.D.S., 2 yrs. from B.D.S.; M.Sc., 2 yrs. from B.Sc.; D.Sc., 4 yrs. from M.Sc. or Ph.D., or 6 yrs. from B.Sc. D.Mus., 15 terms from B.Mus. M.Com., 3 yrs. from B.Com. LL.M., 2 yrs. from LL.B. Ph.D., 2 yrs. from admission as candidate.

Graduates of other Univs. are admissible to the following higher degrees after pursuing studies indicated: M.Ed., 2 yrs. under supervision; D.Ch., 3 yrs.' study, of which 1 yr. in Univ.; B.Hy., 12 months' course in the Univ.; M.Sc., 2 yrs.' study or research in the Univ.; D.Mus., on examination; LL.M., 2 yrs.' research under direction; Ph.D., 2 yrs.' research in the Univ.

LICENCES. *Theology*, open to members of Church of England after 9 terms' residence at an Associated Theol. Coll. after matriculation. *Dental Surgery*, open to matriculated students after 4 yrs.' professional study subsequent to registration.

DIPLOMAS. *Theology*—open to grads. of a Univ. of the British Empire after 3 terms at Durham. *Theory and Practice of Teaching*—open to grads. of approved Univs. after 3 terms' course. *Foreign Languages*—open to grads. of the Univ. in Arts, Letters or Commerce. *Arabic*—3 terms' course. *Public Health*, open to registered medical practitioners of 2 yrs.' standing after 12 months' course. *Psychiatry*—open to registered medical practitioners.

Testamur in Biblical Studies and Certificate in Biblical Studies, open to non-resident students after approved study during 4 yrs. and 1 yr respectively.

FEES. Matricn., £2. Examns.: B.A., B.Arch., B.Sc., B.Com., LL.B., £7; for M.B., B.S., £27; for B.D.S., £15; for M.A., M.Litt., M.D., M.S., M.D.S., M.Sc., M.Com., LL.M., £5; for B.Mus., £10; for B.D., B.C.L., M.Ed., £6; for D.D., D.C.L., £10 : 10s.; for B.Hy., £12 : 10s.; for D.Ch., D.Hy., £20.

Degrees—for initial degrees, £4 : 10s. (M.B., B.S., or B.D.S., £6 : 15s., B.Mus. £5 : 10s.); for Master's Degrees, B.D. or B.C.L., £6 (M.S., M.D.S., £6 : 5s.); for higher doctorates, £10 (D.Mus., £15).

For Tuition Fees *v.* Durham Colleges and King's College.

APPOINTMENTS BOARDS. Durham Colleges (Secretary, University Office, 46 North Bailey, Durham). King's College (Secretary, King's College, Newcastle upon Tyne).

PUBLICATIONS. *Univ. Cal.* (Oct.), 2s. 6d.; *Durh. Univ. Gazette*, 4s. (4 times a yr.); *Durh. Univ. Journal* (oldest Univ. Mag. in England), once a term, 1s. 6d.; *Abstracts of Doctorate Theses* (Nov.), 1s.; *Riddell Memorial Lectures* (Jan.), 2s. 6d.

THE YEAR 1937–38

New Statutes came into force on July 29th, 1937, and new governing bodies were constituted in the Michaelmas Term.

NEW BUILDINGS. The Newcastle office of the University was opened at 23 St. Thomas' Street.

OTHER DEVELOPMENTS. Court authorized a public appeal for building funds (launched October 1938), and an approach to local authorities for increased grants.

RETIREMENT. H. G. Theodosius (Registrar).

DEATH. F. W. Ritson (Treasurer).

HONORARY DEGREES. *D.D.*—T. W. Manson. *D.C.L.*—A. E. Bell, Sir Allen Mawer, The Hon. W. L. Runciman. *D.Sc.*—M. P. Applebey. *D.Litt.*—R. Coupland, V. Scholderer.

STUDENTS READING FOR DEGREES AND DIPLOMAS OF THE UNIVERSITY. Full-time: 1629, including 229 graduates. Part-time: 678, including 167 graduates.

DEGREES. B.A., 138; M.A., 72; B.C.L., 1; B.Com., 5; M.Com., 2; M.Ed., 1; M.Litt., 3; LL.B., 7; B.Sc., 79; M.Sc., 6; D.Sc., 1; M.B., B.S., 61; M.D., 15; B.Hy., 7; B.D.S., 3; B.Mus., 13; Ph.D., 42; L.Th., 11; L.D.S., 11; Dip.Th., 20; D.Th.P.T., 61; D.P.H., 7.

DURHAM COLLEGES

WARDEN—J. F. DUFF, M.A. Camb., M.Ed. Manc. (Vice-Chancellor).

SECRETARY TO THE COUNCIL—W. N. AUSTIN.

TREASURER—E. L. BURTON, B.A. Ox., A.C.A.

LIBRARIAN—H. W. ACOMB, M.A. Camb.

Telephone: Warden and Secretary of Council—Durham 300–301.

TEACHING STAFF

Archæology

Birley, E. B., M.A. Ox., F.S.A. Lectr. (Romano-British A.) and Director, Archæological Research.

Botany

Griffiths, B. M., D.Sc. Birm., F.L.S. Reader.
Chalklin, Kathleen M., M.Sc. Wales Lectr.

Chemistry

Paneth, F. A., Ph.D. Vienna. Prof.

Lectrs.

Christie, G. H., M.Sc., Ph.D. Sheff.
Gibby, C. W., M.Sc., Ph.D. Lond.
Waters, W. A., M.A., Ph.D. Camb.

Classics

Mayne, Rev. Canon W. C., M.A. Camb. (Greek and Class. Lit.) Prof.
..... (Latin) Prof.
Donaldson, Rachel E. D., M.A. Ox. and Durh. Lectr.
Wright, R. P., B.A. Camb. Lectr.
Murray, H. A., M.A. Camb.
Norman, R. T., M.A. Lond. and Ox. (Anc. Hist. and Philos.) Lectr.

Divinity and Eccl. History

Quick, Rev. Canon O. C., M.A. Ox., D.D. St. And. Prof.
Pace, Rev. E. G., M.A., D.D. (Div.) Reader.
Irwin, Rev. O. A. C., M.A., B.D. Dub. Lectr.

Economics

Helsby, L. N., M.A. Ox. Lectr.

Education

Braley, Rev. Canon E. F., M.A., LL.D. Camb. Prof.
Willatt, J. F., M.A. Camb. Lectr.
Daldy, Dorothy M., B.Sc. Brist.

Elocution

Bentley, J. Lectr.

English Lang. and Lit.

Abbott, C. C., M.A. Lond., B.A., Ph.D. Camb. Prof.
Colgrave, B., M.A. Camb. Reader.
Leech, C., M.A., Ph.D. Lond. Lectr.
Rossiter, A. P., B.A. Camb. Lectr.

French

Sells, A. L., M.A. Camb., D. ès L. Paris Prof.
Scott, Ethel M., M.A. Lond. Lectr.
Dodds, Muriel, M.A. Camb., D. de l'U. Paris Lectr.
Wilson, R. L., M.A., B.Litt. St. And. Lectr.
Manley, Audrey F., M.A., A.R.C.M. Asste.

Geography

Lectrs.

Manley, G., M.A. Camb., B.Sc.
Sylvester, Dorothy, M.A. Liv.
Barendt, Frances E., B.A.

Geology

Holmes, A., D.Sc. Lond., D.I.C., F.G.S. Prof.

Lectrs.

Hopkins, W., M.Sc., Ph.D.
Reynolds, Doris L., M.Sc. Lond.

German

McCoort, Isobel, M.A., Ph.D. Edin. Lectr.
von Lindheim, B., D.Phil. Vienna Lektor.

Hebrew

Thacker, T. W., M.A. Ox. Reader.

History

Whiting, Rev. C. E., M.A., D.D., B.C.L. (to 30.9.39) Prof.

Lecturers

Hood, F. C., M.A. Edin.
Douie, Decima L., B.A., Ph.D.
Braley, Rev. E. F., M.A., LL.D. Camb.
Hamilton-Thompson, Beatrice M., M.A., B.Litt. Ox.

Liturgiology

Evans, Rev. E., M.A., B.D. Lectr.

Logic and Psychology

Robinson, A., M.A., D.C.L. Prof.
Wallis, Rev. C. S., M.A. Lectr.

Mathematics

Heawood, P. J., M.A. Ox., D.C.L. Prof.
Burchnall, J. L., M.C., M.A.Ox. Reader.
Baxter, E. F., M A. Camb., M.Sc. Lond. (Applied M.) Lectr.

Music

Bairstow, Sir Edward C., D.Mus., F.R.C.O. Prof.

Philosophy

..... Prof.
Macgregor, R., M.A., B.D. Edin. Lectr.

Physics

Wagstaff, J. E. P., M.A. Camb. D.Sc. Lond. Prof.
Chalmers, J. A., M.A., Ph.D. Camb., B.Sc. Lond. Lectr.
Prowse, W. A., B.Sc., Ph.D. Lectr.

Theology, v. also Divinity

Coleman, Rev. N. D., M.A. Camb. (T. and Hellenistic Greek) Lectr.
Sparks, Rev. H. F. D., M.A. Ox. Lectr.
Allen, Rev. E. L., M.A., Ph.D. Lond.
Rogers, Rev. Canon C. F., M.A. (Pastoral T.) Lectr.

University Extension

33 Tutors and Lecturers were employed, of whom 7 were members of the University Staff. Director of Extra-mural Studies: Rev. Dr. Pace. Organizing Secy. of N.E. District of W.E.A.: B. W. Abrahart.

THE DURHAM COLLEGES

UNIVERSITY. Master—..... Censor—C. C. Abbott, M.A. Lond., B.A., Ph.D. Camb. Bursar—A. A. Macfarlane-Grieve, M.A. Chaplain—Rev. N. D. Coleman, M.A. Camb.

HATFIELD. Master—A. Robinson, M.A., D.C.L. Vice-Master and Chaplain—Rev. E. G. Pace, M.A., D.D. Censor—R. L. Wilson, M.A., B.Litt. St. And. Bursar—A. A. Macfarlane-Grieve, M.A.

ST. CHAD'S. Principal and Chaplain—Rev. J. F. Brewis, M.A. Ox. Vice-

Principal—Rev. C. E. Whiting, M.A., D.D., B.C.L. Classical Lectrs.—L. A. Body, M.A. Camb.; Rev. R. J. H. Shutt, B.A., Ph.D. Fellow, Tutor and Bursar—Rev. J. P. Boden, M.A. Secretary to the Governing Body—Rev. S. R. P. Moulsdale, M.A., B.D., D.C.L.

ST. JOHN'S. Principal and Chaplain—Rev. C. S. Wallis, M.A. Vice-Principal—Rev. O. A. C. Irwin, M.A., B.D. Dub. Lectr. in Hebrew and Bursar—W. H. A. Learoyd, M.A., B.D. Teachers of Elocution—Gertrude M. McLeod, J. Bentley.

ST. MARY'S (for women). Principal—Rachel E. D. Donaldson, M.A.; Senior Tutor and Censor—Beatrice M. Hamilton-Thompson, M.A., B.Litt. Junior Tutor and Secretary—Jean O. Stovin, B.A. Domestic Bursar—Lucie K. Waller, B.A.

*BEDE (Training College for men). Principal—Rev. E. F. Braley, M.A., LL.D. Vice-Principal—D. E. Webster, M.Ed., B.Sc. Lond. Lectrs.—J. Jack, M.C., M B., Ch.B. Glas.; W. Nash; T. Taylor, M.A. Camb.; Rev. H. Knight, M.A., B.Litt.; W. J. Ingram; Rev. F. O. Saunders, M.A.; J. B. Hannah, B.A. Camb., M.A. Edin.; A. P. Rossiter, M.A.

*ST. HILD'S (Training College for women). Principal—Angel L. Lawrence, M.B.E., M.A., LL.B. Camb. Lectrs.—Alice Roberts, M.A., M.Sc.; Jean Templeton, M.A. Edin.; Barbara McRae, B.A. Lond.; Glady's Hinde, B.A., Ph.D. Lond.; Sylvia Blackham; Mildred Head, C.S.M.M.G.; C. Maude, F.R.C.O., A.R.C.M.; Emily Geere, N.F U.; Helen Ewence, B.A.

*NEVILLE'S CROSS (Training College for women). Principal—Zeta G. D. May, M.A. Camb. Lectrs.—Mary Benson, M.A., B.Sc. Manc.; Marjorie C. Haywood, M.A.; Winifred M. A. Lomas, B.Sc. Lond.; Netty M. Lunan, M.A. Aberd.; Agnes Bibby, L.R.A.M.; Agnes I. Champ; Ethel B. Row.

NON-COLLEGIATE STUDENTS. Censor—Rev. N. D. Coleman, M.A. Camb.

HOME STUDENTS (Women). Censor—Ethel M. Scott, M.A. Lond.

GENERAL INFORMATION

For early history, see *Yearbook* for 1929.

LIBRARY, 66,424 vols., 173 incunabula; including rare theological and patristic books. Separate Science Library in the Department of Science.

ADMISSION. See Appendix I.

FEES (including admission, tuition, examns., board and lodging, subscriptions and gratuities). Univ. College, caution money £5, ann. charges—Arts £113, Sci. £119; Hatfield, caution money £5, ann. charges—Arts £104, Sci. £110; St. Chad's, caution money £5, ann. charges—Arts £111, Sci. £117; St. John's, caution money £5, ann. charges—Arts £110 : 15s., Sci. £116 : 15s.; Bede, ann. charges—Arts £50, Sci. £52; St. Mary's, caution money £5, ann. charges—Arts £106, Sci. £112; St. Hild's, £50; Neville's Cross, £45. Non-Coll. students pay £30 p.a. in Arts, £36 p.a. in Science, Univ. fees including club subscriptions; average cost of board and lodging per term £16-£20.

FELLOWSHIPS. 3 Research, £120, open only to candidates who have kept terms and taken B.A. in Durham Division. Pemberton Research Fellowship, £120, open only to candidates who have kept terms and taken B.Sc. in Durham Div.

* Colleges under the Board of Education licensed by the Council of the Durham Colleges as places of residence for students reading for degrees in the Durham Division of the University.

SCHOLARSHIPS. Seven Foundation Entrance Scholarships of maximum value £70 are awarded each year by examination. There are also other Scholarships available to students in residence.

THE YEAR 1937–38

RESIGNATIONS. Professor D. W. Thomas (Hebrew and Oriental Langs.); Professor J. I. O. Masson (Chemistry), on appt. as Vice-Chancellor of Univ. of Sheffield; J. P. Boden (Classics); L. A. Body (Classics); J. B. Hannah (Geography); J. L. Burchnall (Secretary of Council); Phyllis Hodgson (Jr. Tutor and Sec., St. Mary's Coll.).

STUDENTS. Full-time: 424, including 114 graduates. Part-time: 27, including 21 graduates.

DEGREES. B.A., 91; M.A., 52; B.Sc., 20; B.Mus., 13; M.Litt., 1; Ph.D., 1; D.Th.P.T., 61; Dip.Th., 20; L.Th., 11.

KING'S COLLEGE, NEWCASTLE UPON TYNE

CHAIRMAN OF COUNCIL—Rt. Hon. The VISCOUNT RIDLEY.

RECTOR—Rt. Hon. Lord EUSTACE PERCY, M.A. Ox., D.C.L., LL.D.

SUB-RECTOR—Prof. T H. HAVELOCK, M.A., D Sc., F.R S.

DEAN OF MEDICINE—Prof. R B. GREEN, M B , B.S. Lond., M.A., F R C.S.

REGISTRAR—W. G B. OLIVER, M A., LL B , W.S.

BURSAR—J. TELFER, A.S.A.A.

LIBRARIAN—B. S. Page, M.A. Birm.

Telephone : College—Newcastle upon Tyne 23401.
Medical School—Newcastle upon Tyne 21601.

TEACHING STAFF

Accounting

Bell, Albert, F.C.A. Lectr.

Agriculture and Rural Economy, v. *infra*

Anatomy v. Med.

Archæology, v. Classics

Architecture

Edwards, W. B., B.Arch. Liv., M.A. Manc. Master.
Bradbury, R., B.A. Manc., M.Sc., D.Phil. Col. Lectr.
Sharp, T., M.P.P.I. Lectr.
Napper, J. H. Lectr.
Roberts, D. W. Lectr.

Art (School of Fine Arts)

Mainds, A. D., A.R.S.A. Prof. and Dir. of School.
Evetts, L. C., A.R.C.A. (Design). Master.
Lyon, R., A.R.C.A. (Painting). Master.
Maryon, H. J., Assoc. Univ. Read. (Sculpture) Master.
Heslop, A., M.A. (Engraving). Master.
Lall, Mrs. D. M., B.A. Birm. (Art Teaching). Lectr.
Kirby, Mary, A.R.C.A. (Embroidery, Dress Design, and Weaving). Lectr.
5 Assts.

Bacteriology v. Med.

Biology, v. Med.

Botany, v. also *infra* Agric.

Harrison, J. W. H., D.Sc., F.R.S. Prof. and Reader in Genetics.
Blackburn, Kathleen B., D.Sc. Lond., F.L.S. Lectr.
Bartlett, A. W., M A. Camb., B.Sc. Lond., M.Sc., F.L.S. Lectr.
Clark, W. A., B.Sc. St. And. Lectr.
Thomas, Meirion, M.A. Camb. Lectr.

Chemistry, v. also *infra* Agric.

Clemo, G. R., Ph.D., D.Sc. Lond., D.Phil. Ox., F.R.S., F.I.C. (Org. C.) Prof. and Dir. of Dept.
Riley, H. L., D.Sc., A.R.C.S. Lond., D.I.C. (Inorg. and Phys. C.) Prof.
Robinson, P. L., D.Sc., F.I.C. Lectr.
Madgin, W. M., D.Sc. Lectr.

Mallen, Catherine E., M.A. Camb. Lectr.
Leitch, Grace C., M.A., B.Sc., Ph.D. St. And., M.Sc. Lectr.
Haworth, R. D., M.Sc., Ph.D., D.Sc. Manc., F.I.C. Lectr.
Sayce, L. A., M.Sc., Ph.D., F.I.C. Lectr.
Raper, R., M.A., Ph.D. Camb. Lectr.

Classics and Ancient History

Fletcher, G. B. A., M.A. Camb. (Classics) Prof.
Anderton, Mrs. Constance M., M.A. Lectr.
Westlake, H. D., M.A. Camb. Lectr.
Whittick, G. C., M.A. Ox. Lectr.
Richmond, I. A., M.A. Ox. (Romano-Brit. Archæol.) Lectr.

Dentistry, v. *infra*

Economics, v. also Accounting

Jack, D. T., M.A. Glas. D. Dale Prof.
McCallum, E. D., M.A. Glas. Lectr.
Highton, H. E. R., M.A. Glas. Lectr.
Allen, E., M.A. Sheff. Lectr.

Education

Stanley, B., M.A. Ox. Prof.
Stanley, Audrey, B.A. Ox. Lectr.
Brown, V., O.B.E., T.D., M.Sc. Lectr.
Bailes, Stella, B.Sc. Lectr.
Niblett, W. R., B.A. Brist., B.Litt. Ox. Lectr.
Atkinson, Mary B. Lectr.

Engin., Mechanical, Marine and Civil, v. also Nav. Arch.

Hawkes, C. J., O.B.E., M.Sc., M.I.N.A., M.I.Mech.E. Prof.
Morrow, J., T.D., M.Sc. Manc. and Durh., D.Eng. Liv. Reader.
Hardy, G. F., M.Sc. Lectr.
Dixon, J. T. H., M.Sc. Lectr.
Martin, H. E. L., B.Sc. Brist. and Lond. Lectr.
Hogg, A. H. A., M.A. Camb. Lectr.
Talbott, A. C., M.Sc. Birm. Lectr.
O'Grady, S. C., B.A., B.A.I. Dublin Lectr.
Beeley, E. W., M.Sc.Tech. Manc. Lectr.

Engineering, Electrical

Prescott, J. C., D.Eng. Liv. Prof.
Dickinson, J., M.A. Ox., M.Eng. Sheff., M.I.E.E. Lectr.
Williams, Emrys, B.Eng., Ph.D. Liv. Lectr.

English

Renwick, W. L., M.A., D.Litt. Glas., B.Litt. Ox., D. ès L. Bordeaux J. Cowen Prof.
Wragge, Sybil, M.A. Lectr.
Elmes, R. S., M.A. Camb. Lectr.
Orton, H., M.A., B.Litt. Ox.
Haworth, R. A. L., M.A. Ox., D.Lit. Japan. Temp. Lectr.

French, v. Modern Langs.

Geography

Daysh, G. H. J., B.Litt. Ox. Lectr.
Morris, F. G., M.A. Ox. and Lond. Lectr.
Peel, R. F. E. W., M.A. Camb. Lectr.

Geology

Hickling, H. G. A., D.Sc. Manc., M.Sc., F.R.S., F.G.S., M.I.Min.E. J. B. Simpson Prof.
Mockler, G. S., B.Sc. Manc. Lectr.
Raistrick, A., M.Sc., Ph.D. Leeds, F.G.S. Lectr.
Tomkeieff, Serge J., M.Sc., F.G.S. Lectr.

German, v. Mod. Langs.

History, Modern [Prof.
Morison, J. L., M.A., D.Litt. Glas.
Bell, H. E., M.A. Camb. Lectr.
Tomkeieff, Mrs. Olive G., M.A., LL.B. Camb. Lectr.

History, Ancient, v. Classics

Law

Johnston, T. K., M.A., LL.M. Camb. Lectr.
Charlesworth, J., LL.D. Lond. Lectr.
Motion, A. W. Lectr.

Mathematics

Havelock, T. H., M.A. Camb., D.Sc., F.R.S. Prof. and Director of Dept.
Goldsbrough, G. R., D.Sc., F.R.S. (Dynamical Astron.) Prof. and Reader.
Colborne, D. C., M.A. Camb. Lectr.
Miles, W. H., B.A. Ox. Lectr.
Mulholland, H. P., M.A., Ph.D., Camb. Lectr.
Gilbert, C., B Sc., Ph.D. Lond. Lectr.

Metallurgy

Smythe, J. A., D.Sc. Durh., Ph.D. Gött. Wm. Cochrane Lectr.
Pearson, C. E., M.Met. Sheff. Lectr.

Military Science

Sheffield, Major O. F., B.A. Ox. Lectr.

Mining

Poole, Granville, B.Sc. Birm., F.G.S., M.I.M.E. Milburn Prof.
Whetton, J. T., M.C., M.Sc. Leeds, M.I.M.E. Lectr.
Wedgwood, A., M.Sc., M.I.M.E. Lectr.
Logan, A., M.A., M.B., Ch.B. St. And., F.R.C.S. (First Aid) Pt.-time Lectr.

Modern Languages

Girdlestone, C. M., M.A. Camb., L. ès L. Paris (French) Prof. and Director of Dept.

Lectrs.

Macgregor, Lilias, M.A. Edin. and Durh., D. de l'U. Gren. (Fr.).
Vallette, Jean, L. ès L. Paris (Fr.).
Hill, Doris W., M.A. Camb., L. ès L. Poitiers (Fr.).
Tomlinson, Mme. Marie S. P. (Fr.).
Manson, J., M.A., Ph.D. Edin. (Spanish).
Mennie, D. M., M.A. Aberd., D.Phil. Kiel (German).
Scott, D. F. S., M.A. Lond., D.Phil. Gött. (German).

Music

Newman, S. T. M., B.A. Ox., F.R.C.O. Lectr.

Naval Architecture

Abell, Sir Westcott S, K.B.E., R.C.N.C. (retd.), M.Eng., M.Inst.C.E. Prof.
Scott, J. L., M.Sc., M.I.N.A. Lectr.

Philosophy, Mental and Moral

Reid, L. A., M.A., D.Litt. Edin., Ph.D. Wales Prof.
Drever, J., M.A. Edin., B.A. Camb. Lectr.

Physics

Curtis, W. E., D.Sc. Lond., A.R.C.S., D.I.C., F.R.S., F.R.A.S. Prof. and Director of Dept.
Todd, G. W., M.A. Camb., D.Sc. Birm., M.Sc., F.Inst.P. (Expl. P.) Prof.
Richardson, E. G., B.A., Ph.D., D.Sc. Lond. Lectr.
Wood, J. F., M.Sc. Lectr.
Darbyshire, O., M.Sc. Manc. Lectr.
Roscoe, R., B.Sc., Ph.D. Lond. Lectr.

Physiology, v. Med.

Religious Knowledge

Allen, Rev. E. L., M.A., Ph.D. Lond. Lectr.

Secretarial Practice

Arkless, J. C., A.C.I.S. Lectr.

Zoology, v. also *infra* Agric.

Hobson, A. D., M.A. Camb. Prof.

Bartlett, Mrs. Olga M., M.Sc., M.Ed. Lectr.
Maclagan, D. S., Ph.D., D.Sc. Edin. Lectr.
Steel, A., M.Sc. Wales Lectr.
Ellenby, C., B.Sc., Ph.D. Lond. Lectr.
Storrow, B., M.Sc. Naturalist at Marine Lab.
Bull, H. O., B.Sc., Ph.D. Lond. Biologist at Marine Lab.
Cowan, Mrs. Dorothy Librarian at Marine Lab.

Agriculture and Rural Economy

Agriculture

Hanley, J. A., A.R.C.S. Lond., Ph.D. Munich Prof.
Wheldon, R. W., D.Sc. Lectr.
Pawson, H. C. Lectr.

Agric. Botany

Harrison, Helena H., M.Sc. Lectr.

Agric. Chemistry

Thomas, Brynmor, M.Sc., A.I.C. Adviser.
Hall, A. A., M.Sc. Liv., Manc., and Durh., Ph.D. Jena, F.I.C. Lectr.

Agric. Economics

Dinsdale, D. H., M.A. Adviser.
Roy, G. T., B.A. (Econ.) Brist. Tech. Asst.

Agric. Mycology

Bennett, F. T., B.Sc. (Agr.), Ph.D. Lond. Adviser.

Agric. Surveying

Adam, D. T., B.Sc. (Agr.) Aberd., N.D.A., F.S.I. Lectr.

Agric. Zoology

Gray, R. A. H., M.A., B.Sc. (Agr.) Aberd., M.Sc. Adviser.

Dairy Bacteriology

Westwater, C. H., M.A., B.Sc. (Agr.) Glas., N.D.A., N.D.D. Adviser.

Veterinary Science

Stewart, W. L., M.R.C.V.S. Investigation Officer.
Ponsford, Annie P., B.A. Camb., Ph.D. Lond. Research Asst.

Medicine

Anæsthetics

Clinical Tutors

Ayre, T. P., L.R.C.P., M.R.C.S.
Campbell, L. M. R., M.A., M.B., Ch.B. St. And.
Davison, M. H. A., M.D., B.S.
Markham, H. H., M.B , B.S., D.A.
Murray, J. L., M.B., B.S.
Osselton, E. W., M.B., B.S.
Peet, Elsie L., M.B., B.S., L.D.S.
Phillips, W. J., B.Sc., M.B., B.S., D.A.
Seymour, W., M.B., B.S.

Anatomy

Green, R. B., M.B., B.S. Lond., M.A., F.R.C.S. Prof.
Short, J., M.A. Ox., M.B., B.S. Lectr.
Gild, A., M.B., B.S. Adel. Demr.
Sutherland, J. W. M., M.B., Ch.B. Aberd. Demr.

Lectrs. in Appl. Anatomy

Lickley, J. D., M.D. Glas. (Med.).
Gilmour, J., M.B., M.S., F.R.C.S. (Surg.).

Bacteriology

Dunlop, E. M., M.C., M.D. Glas. Prof.
Elliot, J. S., M.B., Ch.B. Edin., D.P.H. Demr.
Emslie-Smith, A. H., M.B., Ch.B. Aberd. Demr.

Biology (for students of Med.)

Beadle, L. C., M.A. Camb. Lectr.
Booth, F. A., B.A. Camb. Demr.

Children, Diseases of

Lickley, J. D., M.D., Ch.B. Glas. Temp. Lectr.

Dentistry, v. *infra*

Dermatology

Thompson, S., M D., B.S. Lectr.

Clinical Teachers

Thompson, D., M.D., B.S.

Bolam, R. Mason, M.A., M.D., B.Ch. Camb., L.R.C.P., M.R.C.S.

Electrotherapeutics and Radiology

Clinical Teachers

Davidson, S. W., M.D., B.S., M.R.C.P.

Ramage, D., M.D., Ch.B. Manc., D.M.R.E. Liv.

Hygiene, v. Pub. Health

Laryngology, Otology, and Rhinology

Wilson, W. F., M.B., B.S. (and Clinical) Lectr.

Whillis, R., M.A., M.B., B.Ch. Camb., F.R.C.S.Ed. Clin. Teacher

McGuckin, F., M.D., B.S., F.R.C.S.Ed. Clin. Teacher.

Materia Medica and Pharmacy

Foggan, D., M.P.S. Tutor.

Medical Jurisprudence

Stephenson, G. E., B.Sc., M.D., B.S. Lectr.

Medicine, Principles and Practice

Hume, W. E., C.M.G., M.A., M.D., B.Ch. Camb., F.R.C.P. Prof.

Hall, G., C.M.G., M.D. Lond., B.Sc., F.R.C.P. Lectr.

Drummond, H., M.D., B.S. Lectr.

Clinical Teachers in Med.

Hume, W. E. (v. *supra*).

Drummond, H. (v. *supra*).

Hall, G. (v. *supra*).

Nattrass, F. J. (v. Therap.).

Spence, J. C., M.C., M.D., F.R.C.P.

Armstrong, C. N., M.D., B.S., B.Hy., D.P.H., M.R.C.P.

Ogilvie, A. G., M.B., B.S., M.R.C.P.

Ungley, C. C., M.D., B.S., M.R.C.P.

Clinical Tutors

Boon, T. H., M.B., B.S.

Mowbray, R., M.D., B.S., D.C.H.

Dewar, H. A., M.D., B.S.

Smart, G. A., B.Sc., M.B., B.S.

Midwifery and Gynæcology

Murray, E. F., M.D. St. And., F.R.C.S., F.C.O.G. Prof.

Evers, H. H., M.B., M.S., F.R.C.S., F.C.O.G. Lectr.

Clinical Teachers

Murray, E. F. (v. *supra*).

Evers, H. H. (v. *supra*).

Campbell, L. Mabel R., M.A., M.B., Ch.B. St. And.

Weeks, L. M., M.C., M.A., M.D., B.Ch. Camb.

Stabler, F. E., M.D., B.S., F.R.C.S.

Hunter, W., M.D., B.S.

Davison, H. Glen, M.D., B.S.

Way, S. A., L.R.C.P., M.R.C.S.

Ophthalmology [Lectr.

Arkle, J. S., M.B., B.S., F.R.C.S.E.

Clinical Teachers

Arkle, J. S. (v. *supra*).

Ingram, H. V., M.B., B.S., M.R.C.S., D.O.M.S. Asst.

Orthopædics [Clin. Teacher.

Irwin, C. G., M.B., B.S., F.R.C.S.E.

Stanger, J. K., M.B., B.S., F.R.C.S. Clin. Teacher.

Pathology

Shaw, A. F. B., B.A., M.D. Dublin, F.R.C.P.I., D.P.H. Prof.

Thomson, J. G., M.B., Ch.B. Aberd. Lectr.

Herbert, Freda K., M.A. Camb., M.B., B.S. Lond., M.R.C.S., L.R.C.P. (P. Chem.) Lectr.

Demrs.

Stephenson, G. E., M.C., B.Sc., M.D., B.S.

Lennox, B., M.B., B.S.

Spence, J. C. (v. Med., Clin.), (Med. Path.).

Wardill, W. E. M. (v. Surg., Clin.), (Surg. Path.).

Evers, H. H. (v. Midw.), (Gynæc. Path.).

Pharmacology

Secker, J. (v. Physiol.) Lectr.

Physiology

Burns, David, M.A. Glas. and Durh., D.Sc. Glas. Prof.
Secker, J., M.Sc., L.R.C.P., M.R.C.S. Lectr.
Saunders, J. A., M.Sc., Ph.D. (Bio-chem.) Lectr.
Henderson, Nellie, B.Sc. Lond. Demr.
Elliott, F. J., M.Sc., Ph.D., F.I.C. Demr.
Francis, J. E , B.Sc., M.B., B.S., L.R.C.P., M.R.C.S. Demr.
Davison, G., M.D., B.S., M.R.C.P., D.C.H. (Clin. P.) Demr.

Psychological Medicine

MacPhail, H. D., O.B.E., M.A., M.D. Edin. Lectr.

Public Health

Charles, J. A., M.D., B.S., D.P.H. Lectr.

Surgery

Willan, R. J., M.V.O., M.B., M.S., F.R.C.S. Prof.
Pybus, F. C., M.B., M.S., F.R.C.S. Lectr.
Hodgson, N., M.B., M.S., F.R.C.S.E. Lectr.

Clinical Teachers

Pybus, F. C. (v. *supra*).
Barclay, J. H., M.D., M.S., F.R.C.S.
Hodgson, N. (v. *supra*).
Hindmarsh, T. A., M.B., M.S., F.R.C.S.
Gilmour, J., M.B., M.S., F.R.C.S.
Whyte, A. H., M.B., M.S., F.R.C.S.
Hewitson, W. A., M.B., B.S. Lond., M.B., M.S., F.R.C.S.
Wardill, W. E. M., M.B., B.S., F.R.C.S. (and Curator of Museum).
Brumwell, J., M.B., B.S., F.R.C.S.
Watts, W. P. T., M.B., M.S., F.R.C.S.E.
Mason, G. A., M.B., B.S., F.R.C.S. (and Asst. Curator of Museum).
Feggetter, G. Y., M.B., M.S., F.R.C.S.
Logan, A., M.B., Ch.B. St. And., F.R.C.S., Sr. Surg. Registrar.

Surgical Tutors

Raw, S. C., M.B., B.S.
Cohen, H., M.B., Ch.B. Edin.
Swinney, J., M.D.
Munro, A. H. G., M.B., B.S.
Rutherford, R. J., M.B., B.S.
Gray, J. E , M.B., B.S.

Therapeutics

Nattrass, F. J., M.D., B.S., F.R.C.P. Lectr.

Venereal Diseases

McLachlan, A. E. W., M.B., Ch.B. Edin., D.P.H. Lectr.

Public Health Laboratory

Warren, S. H., M.R.C.S., L.R.C.P., D.P.H. Director.
Congdon, Phyllis M., M.D., Dp. Bact., D.P.H. Manc. Asst.
Wade, Emmeline, M.B., Ch.B., Dp.Bact. Manc. Asst.

Dentistry

D. Anatomy

Laing, A. M., L.D.S. Edin. Lectr.

D. Anæsthetics

Pool, J. Hope, M.D., B.S. Lectr.

D. Histology

Secker, J., M.Sc., L.R.C.P., M.R.C.S. Lectr.

D. Materia Med. and Therap.

Davis, H., L.D.S. Glas. Lectr.

D. Mechanics and Prosthetics

Tregarthen, G. G. T., L.D.S. Eng. Prosthetic D. Surgeon and Lectr.

D. Metallurgy

Lotinga, C., L.D.S. Edin. Lectr.
Long, J. J., L.D.S. Glas. Asst. Lectr. and Demr.

D. Surgery and Pathol.

Bradlaw, R. V., L.R.C.P. Lond., M.R.C S., L.D.S. Eng. Prof. and Director of Dental Studies.
Littlefield, W. H., L.D.S. Conservation Room Demr.
Darling, A. I., L.D.S. Extraction Room Demr.

Operative D. Surgery

Reay, R. H., L.D.S., H.D.D. Edin. Lectr.

Orthodontics

Cooper, E. R., L.D.S. Edin. Lectr.

Radiology

Haswell, S. V., L.D.S. Edin. Lectr.

Clinical Teachers in the Dental Hospital

Laing, A. M., L.D.S. Edin.
Gibbon, E., L.D.S. Eng.
Davis, H., L.D.S. Glas.
Cooper, E. R., L.D.S. Edin.
Haswell, S. V., L.D.S. Edin.
Long, J. J., L.D.S. Glas.
Chalmers, J., L.D.S.
Daniels, J. E., L.D.S.
Reay, R. H., H.D.D. Edin., L.D.S.
Smith, H. A., L.D.S.
Hutchinson, G. E., L.D.S.
Johnson, G., L.D.S.
Shafto, C. E , L.D.S.

Earl Grey Memorial Lecturer

1939—Sir Daniel Hall, K.C.B., LL.D., D.Sc., F.R.S. Subject: *Agricultural progress and agricultural depression during the last sixty years.*

William Henry Charlton Lecturer

1938—T. D. Kendrick, M.A., F.S.A. (Brit. Museum). Subject: *Late Anglo-Saxon and Viking Art.*

Riddell Memorial Lecturer

1938—Prof. W. G. de Burgh, M.A. (Univ. of Reading). Subject: *Knowledge of the Individual* (3 lectures).

University Extension

Director of Extra-Mural Studies and Jt. Sec., Board of Extra-Mural Studies: H. E. R. Highton, M.A. Glas.

Tutor-Organizers for Cumberland and Westmorland: T. G. Jones, B.A. Wales, B.Sc. Lond.; Agnes F. Young, M.A. Liv.

GENERAL INFORMATION

The University of Durham College of Medicine was originally founded in 1834 and became associated with the University of Durham in 1852. Armstrong College, Newcastle upon Tyne, was founded in 1871, as a part of the University of Durham. In 1937 the two Colleges were merged to form King's College, Newcastle upon Tyne, in the University of Durham.

LIBRARY, 136,494 vols., 40,375 pamphlets (including the Medical libraries). There are also departmental libraries. Special collections: English Bibles from 1535; Heslop, English dictionaries (277 vols.); Kepier, fifteenth- to eighteenth-century printed books, mostly classics (600 vols.); Merz, philosophical, mathematical and general (3940 vols.); Spence Watson, early English texts (564 vols.); Oriental, with special reference to India (2762 vols. and 2082 pamphlets); Gilchrist, Agricultural (529 vols.); Gertrude Bell, Oriental (1963 vols.).

MUSEUMS. Anat., Hygiene, Mat. Med., Path., Dental, Zool., Geol., Mineral., Chem., Mining, Technological specimens.

LABORATORIES with special facilities for research in Engin. and Hydr., Elect. Eng. and Mining, and Experimental Phonetics; special branches of Chem., Physics, Geol., Bot., and Agric.; Marine Biol. (Dove Marine Lab., Cullercoats. See App. III. A. III.).

The Agric. Dept. undertakes the scientific control of Cockle Park, the Northumberland County Experiment Station, and has the use of other County and Crown estates for teaching, research, and demonstration purposes.

ADMISSION. See Appendix I.

DEGREE COURSES. Complete Courses for degrees in Arts, Architecture, Medicine, Surgery, Hygiene, Dental Surgery, Science, Applied Science, Law and Commerce, and for Univ. Diplomas in Education, Public Health, Psychiatry and the Univ. Licence in Dental Surgery.

Instruction in Clinical Medicine and Surgery is given in the Royal Victoria Infirmary (700 beds) and other hospitals; in Practical Midwifery and Clinical Gynæcology at the Princess Mary Maternity Hospital; in Clinical Dental Surgery in the Newcastle upon Tyne Dental Hospital. The Pathological Museum provides an exceptional collection of specimens prepared by modern methods. Post-graduate medical and dental teaching is supervised by committees representing the College and associated hospitals. Research facilities are available in the various departments.

The Applied Science courses are in Agriculture, Engineering (Mechanical, Marine, Civil, or Electrical), Naval Architecture, Mining, and Metallurgy.

The Teachers' Training Dept. is available for both Elementary and Secondary School Work.

Under the Tutorial System, each student in faculties other than medicine is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests. The Dean of Medicine performs similar duties in the Medical School.

COLLEGE DIPLOMAS. Fine Art (4 yrs.); Principles of the Teaching of Art (1 yr. after Fine Art Diploma or other approved qualification); Architecture (5 yrs.); Town Planning (1 yr. after Certificate); Economics, History, and Political Science (2 yrs.); Agriculture (3 winters of 2 terms); Mining (3 yrs.); Commerce (2 yrs., evening students only); Public Administration (3 yrs., evening students only).

COLLEGE CERTIFICATES. Fine Art (4 yrs.), Architecture (5 yrs.), Town Planning (2 yrs.).

For admission to study for the College Diploma (i.) in Agric., Mining, or Commerce, Economics, History, and Political Science, Public Administration, or for the Certificate in Fine Art, no regular entrance examn. is required; (ii.) in Fine Art an entrance examn. accepted for the purpose of matriculation.

Short courses are provided in Agriculture (10 weeks).

FEES: Faculties other than Medicine:

Registration (Degree students and some others), £2 p.a.; Students' Societies and University Union, £3 : 13 : 6 p.a. Tuition for degree courses: B.A., B.Com., or LL.B. (3 yrs.), £30 p.a. B.Sc. in Pure Science or Agriculture (3 yrs.), £35 p.a.; B.Sc. in Engineering, Naval Architecture, Mining, or Metallurgy (3 yrs.), £40 p.a.; B.Arch. (5 yrs.), 1st, 2nd, and 3rd yrs., £30 p.a., 4th and 5th yrs., £22 : 10s. p.a. Post-graduate study and research, £7 : 10s., £12, or £18 p.a., according to course taken. Tuition for diploma courses: Theory and Practice of Teaching (1 yr. post-graduate), £35; Fine Art (4 yrs.),

£16 p.a.; Principles of the Teaching of Art (1 yr. after Fine Art Diploma or other approved qualification), £25; Architecture (5 yrs.), 1st, 2nd, and 3rd yrs., £25 p.a., 4th and 5th yrs., £20 p.a.; Town Planning (1 yr. after Certificate), £16; Economics, History, and Political Science (2 yrs.), £10 p.a.; Agriculture (3 winters of 2 terms), £22 : 10s. p.a.; Mining (3 yrs.), £40 p.a.; Commerce (2 yrs., evening students only), £10 p.a.; Public Administration (3 yrs., evening students only), £3 p.a. per subject. Tuition for certificate courses: Fine Art (4 yrs.), £16 p.a.; Architecture (5 yrs.), £10 p.a.; Town Planning (2 yrs.), £4 or £6 p.a.

For fees for matriculation, examns. and degrees, see University section, *supra*.

FEES: Medical School:

Systematic, practical and clinical instruction: Pre-Medical course £35; M.B., B.S., first year £34, remaining four years £40 p.a.; B.D.S. and L.D.S., first and second years £35 p.a., third, fourth and fifth (B.D.S.) years £40 p.a., including pupilage in dental mechanics. Incidental fees varying from £6 : 5s. to £7 : 10s. p.a. are also payable.

For fees for matriculation, examns. and degrees, see University section, *supra*.

SCHOLARSHIPS. Entrance: Open, £60-£95 p.a., some of which are restricted to students of medicine and agriculture. Various scholarships and prizes are awarded during degree and diploma courses.

FELLOWSHIPS, ETC. (Postgraduate). £300 for 1 yr. (Earl Grey Memorial), open to a graduate in Sci. or Commerce; £180 every 3rd yr. (Rutherford Morison), for Surgery; £150 for 1 yr. (Parker Brewis Dental Research Scholarship); £100 for 1 yr. (Sir W. H. Stephenson Studentship), open to a grad. in the Fac. of Arts; £150 for 1 yr. (William Black Noble Memorial Studentship), open to a grad. in the Facs. of Com., Arts, or Sci.; £100 for 1 yr. (Pemberton Studentship), open to a grad. in Sci.; £75 (1), £50 (2) studentships for 1 yr., open to grads. of any Fac.; £100 (6) for 1 yr., open to grads. of any Fac.; £75 for 1 yr. (Philip Buckle Memorial Scholarship), open to grads. of the Dept. of Agric. (including Agric. Zool.); £25 for 1 yr. (Luke Armstrong) for Compar. Pathol.; £50 for 1 yr. (Hamilton Drummond), for Clin. Surg.; £15 for 1 yr. (Macpherson Prize), open to grads. in Med. For particulars of the Johnston Chemical Studentship and Prize, *see* App. II. 18.

RESEARCH FUNDS. An endowment of £15,277, established in 1923, is administered by a Standing Committee, which allocates the interest of the fund as grants in aid of specific investigations by trained workers rather than for training persons in research. There are also available at the Medical School several funds for medical and surgical research—Stephen Scott, Heath, Beaverbrook, William Dodds.

RESIDENCE. Henderson Hall (Warden: A. A. Hall, M.Sc., Ph.D.) for 79 men, fees £65 p.a.; Easton Hall (Warden: Miss C. M. Hawthorn, M.A., B.Sc.) particularly for women in training under Board of Education's regulations for the Training of Teachers, fees £64 p.a.; Stephenson Hostel (Warden: G. G. T. Tregarthen, L.D.S.) for medical students during clinical clerkships.

UNIVERSITY EXTENSION. Public lectures in the College include the annual Earl Grey Memorial and W. H. Charlton lectures, occasional lectures and short courses (winter programme issued in Oct.), lectures in French (Alliance Française), and popular evening lectures. Short courses in various centres in Agriculture and Forestry. Tutorial classes in various centres (most of the tutors are regular members of college staff).

THE YEAR 1937–38

DEPARTMENTS other than Medical School

BENEFACTIONS. Department of Scientific and Industrial Research, £300 for apparatus; Reyrolle & Co., Ltd., £250 for elect. engin. To Library: French Govt., selection of books by French publishers; Lord Eustace Percy, 100 vols. on American and Modern European History; Dr. G. G. Stoney, collection of books on Engineering; and others.

RETIREMENTS. Rev. M. Fletcher (Crystallog. and Mineral.; Religious Knowledge); C. W. Caunt (Maths.); Mr. J. W. Bullerwell (Physics).

RESIGNATIONS. W. S. Angus (Secretary to Council of King's College and formerly Registrar to Armstrong College), on appointment as Registrar of the Univ.; Miss D. Emmet (Phil.), on appt. to Lect. in Philosophy of Religion at Univ. of Manchester; J. H. Day (Zool.), on appt. to Lect. in Zoology at Univ. of Cape Town; D. V. Orton (Agric. Econ.).

DEATH. W. J. Wilson (Woodwork).

EXTENSION WORK. Public lectures in the College included: three French lectures under the auspices of the Alliance Française and 2 others in French; the Earl Grey Memorial Lecture on "The Dependence of the Mind on its Physical Environment," by Sir Joseph Burcroft; the William Henry Charlton Lecture on "Attic White Lekythoi," by Professor J. D. Beazley; and a series of Evening lectures throughout the winter by prominent authorities from outside the College and by various members of the Staff. Extra-mural Classes: Advanced Tutorial Classes 2, students 17; Tutorial Classes 29, students 435; Preparatory Classes 2, students 44; Extension Courses 29, students 546; total: classes 62, students 1042.

STUDENTS. Full-time, 779, including 105 graduates. Part-time, 503, including 14 graduates.

DEGREES. B.A., 47; M.A., 20; B.C.L., 1; LL.B., 7; M.Ed., 1; M.Litt., 2; Pure Science: B.Sc., 59; M.Sc., 6; Ph.D., 11; D.Sc., 1; Applied Science: B.Sc., 39; M.Sc., 7; Ph.D., 1; B.Com., 5; M.Com., 2.

MEDICAL SCHOOL

BENEFACTION. Bequest from Leonard Macpherson to found prize for study of "Diabetes" and "Bright's Disease."

RETIREMENT. Prof. Stuart McDonald (Pathology).

RESIGNATIONS. R. Spencer (Anat.); J. H. Saint (Clin. Surg.); Dr. S. Thompson (Ven. Dis.).

STUDENTS. Full-time, 426, including 10 graduates. Part-time, 148, including 132 graduates.

DEGREES AND DIPLOMAS. M.B., B.S., 61; M.D., 15; B.Hy., 7; D.Hy., 1; B.D.S., 3; L.D.S., 11; D.P.H., 7.

UNIVERSITY OF LEEDS

Founded 1904

VISITOR—H.M. THE KING.

CHANCELLOR—His Grace the DUKE OF DEVONSHIRE, M.B E., J.P., LL.D. Camb. and Leeds.

PRO-CHANCELLOR—Col. C. H. TETLEY, D.S.O., M.A., LL.D., D.L.

VICE-CHANCELLOR—B. MOUAT JONES, D.S.O., M.A.

PRO-VICE-CHANCELLOR—Prof. J. H. PRIESTLEY, D.S.O., B.Sc. Lond., F.L.S.

TREASURER—Hon. R. E. BECKETT.

REGISTRAR—A. E. WHEELER, M.A.

ACCOUNTANT—E. J. BROWN, B.Com. Lond.

CLERK TO THE SENATE—W. R. MOULE, M.A. Camb.

LIBRARIAN—R. OFFOR, Ph.D. Lond.

Telephone : Registrar—Leeds 20251.

TEACHING STAFF

Agriculture, v. *infra*

Anatomy

Durward, A., M.D. N.Z. Prof.
Boyd, G. I., M.D. Edin., F.R.C.S. Lectr.
Adams, W. E., M.Sc., M.B., Ch.B., B.Med.Sc. N.Z. (Histol.) Lectr.
Quale, G., M.B., Ch.B. Demr.
Davidson, W., M.B., Ch.B. Demr.
France, W. G., M.B., Ch.B., M.R.C.S., L.R.C.P. Demr.

Hon. Demrs.

Morton, W. C., C.B.E., M.A., M.D. Edin.
Broomhead, R., M.B., Ch.B.
Gillies, J. C., M.B., Ch.B., F.R.C.S. Edin.
Helmsley, F. R. W., M.B., Ch.B.
Keidan, I. J., M.B., Ch.B.

Bio-Chemistry, v. Physiol.

Botany

Priestley, J. H., D.S.O., B.Sc. Lond., F.L.S. Prof.
Scott, Lorna I., M.Sc. Lond. Lectr.
Sledge, W. A., Ph.D. Lectr.
Preston, R. D., Ph.D. Lectr.

Demrs. (Pt.-time)

Allsopp, A., Ph.D. Manc.
Stubbs, J., Ph.D.
Sharman, B. C., Ph.D.

Grist, Mrs., B.Sc. Lond. Hon. Demr.
Mattinson, Kathleen M., B.Sc. (R.).
Bengry, R. P., B.Sc. Museum Curator.

Chemistry, v. also Technology—Colour Chemistry.

Whytlaw-Gray, R. W., O.B.E., Ph.D. Lond., F.I.C., F.R.S. (Dean, Fac. of Sci.) Prof.
Usher, F. L., D.Sc. Lond. (Colloid C.) Reader.
Lowson, W., B.Sc. Lond. and Leeds, F.I.C. (Analyt. C.) Lectr.
Hume, J., B.Sc. Edin., A.I.C. Lectr.

(R.) = Research Asst.

Clark, C. H. D., D.Sc. Lond., A.R.C.S., D.I.C. Lectr.
Garrick, F. J., M.A. Ox. Lectr.
Colvin, J., B.Sc., Ph.D. Liv. Asst. Lectr.
Bradley, R. S., M.A. Camb. Asst. Lectr.

Demrs. (Pt.-time)

Webb, K. R., B.Sc. Lond.
Henry, T. H., B.Sc.
Whitaker, H., M.Sc. (R.).

Chemistry, Organic

Challenger, F., D.Sc. Birm., B.Sc. Lond., Ph.D. Göttingen, F.I.C. Prof.
Baker, J. W., D.Sc. Lond., F.I.C. Lectr.
Burton, H., Ph.D., D.Sc. Lond., M.Sc. Sheff., F.I.C. Lectr.
Wightman, W. A., M.A. Ox. Lectr.
Goss, F. R., Ph.D. Lond. Lectr.
Shoppee, C. W., Ph.D., D.Sc. Lond. Lectr.
Rothstein, E., Ph.D. Lond., A.R.C.S. Demr. and (R.).

Chemistry, Physical

Dawson, H. M., B.Sc. Lond., Ph.D. Gies., D.Sc., F.R.S. Prof.
Smith, G. F., Ph.D. Wales and Camb. Lectr.
Belton, J. W., Ph.D. Liv. Lectr.
Spence, R., Ph.D. Durh. Asst. Lectr.
Wild, W., B.Sc., Ph.D., A.I.C. Demr.
Smith, Mrs. G. F., Ph.D. Hon. Demr.

Classics : Greek

Edwards, W. M., M.C., M.A. Ox. Prof.
..... (Archæol.) Lectr.
Bruce, F. F., M.A. Aberd., B.A. Camb. Asst. Lectr.

Classics : Latin

Wood, E. J., M.A. Aberd. and Camb. Prof.
Bibby, E. E., M.A. Leeds and Camb. Lectr.
Binyon, D. E. F., B.A. Ox. Lectr.
Newell, A. N., B.A. Camb. Lectr.
Symonds, Rev. H. E., M.A. Ox. Pt.-time Lectr.

Commerce, v. Economics

Dentistry, v. *infra*

Economics

Jones, J. Harry, M.A. Wales Prof.
Richardson, J. H., M.A. Camb., Ph.D. Lond. (Indust. Relns.) (Dean, Fac. of Econs. and Comm.). Montague Burton Prof.
Shimmin, A. N., M.A. Manc. Lectr.
Dickinson, H. D., M.A. Camb. (Ec. Hist.) Lectr.
Dower, R. S., M.A. Camb. (Social Organization) Lectr.
McCarmick, A., A.C.A. (Acctcy.) Lectr.
MacDougall, G. D. A., B.A. Ox. Asst. Lectr.
Cartwright, Mrs., B.Sc. Lond. (R.).
Brown, Ida E., M.A. Sheff. (Soc. Work) Tutor.

Education

Smith, F., B.A., B.Sc. Manc., M.A. Camb., Ph.D. Wales. Prof.
Blackburn, Eliz. M., M.A. Lectr.
Monahan, A. J., M.A. Lectr.
Wynn Jones, Ll., M.A. Ox., Ph.D. Leip. (Expl. Psychol.) Lectr.
Curtis, S. J., Ph.D. Lond. Lectr.
Robson, Winifred F., M.A. Liv. Lectr.
Newcomb, Edith, M.A. Columbia. Lectr.
Smith, C. A., B.A. Lond. Lectr.

(R.) = Research Asst.

Mason, F., M.A. Camb. Asst. Lectr.
6 Pt.-time Assts.

Engineering, v. Technology

English Lang. and Lit.

Dobrée, Bonamy, O.B.E., M.A. Camb. (Lit.) Prof.
Dickins, B., M.A. Camb. (Lang.) Prof.
Childe, W. R., M.A. Ox. Lectr.
Ross, A. S. C., B.A. Ox. Lectr.
Wilson, R. M., M.A. Lectr.
Jefferson, D. W., B.A. Lectr.
Turville-Petre, E. O. G. (Mod. Icelandic) Hon. Lectr.
Muir, K., B.A. Ox. Asst. Lectr.

French Lang. and Lit.

Arnold, Ivor D. O., M.A. Wales, D. de l'U. Strasb. Prof.
Gunnell, Doris, M.A., D. de l'U. Paris Lectr.
Inebnit, J. P., L. ès L. Neuchâtel Lectr.
Benn, T. V., B.A., Ph.D. Lectr.
Hainsworth, G., M.A., D. de l'U. Paris. Lectr.
Delaney, R., B.A., Ph.D. Temp. Asst. Lectr.

Geography

Williamson, A. V., M.A. Liv. Reader and Hd. of Dept.
Clark, K. G. T., B.A. Lectr.
Davies, A., M.Sc. Wales Lectr.
1 Asst.

Geology

Gilligan, A., B.Sc. Wales, D.Sc., F.G.S., M.I.M.E. Prof.
Versey, H. C., D.Sc., F.G.S. Lectr.
Hudson, R. G. S., D.Sc. Lond., F.G.S. Lectr.
Hemingway, J. E., Ph.D. Asst. Lectr.

German Lang. and Lit.

Gough, C. E., Ph.D. Basle Prof.
Caldwell, M. Constance, B.A. Lectr.
Peacock, R., M.A., Ph.D. Marburg Lectr.

Hebrew, v. Theol. Studies

Histology, v. Anatomy

History

Thompson, A. Hamilton, C.B.E., M.A. Camb., D.Litt. Durh., F.B.A., F.S.A., Hon. A.R.I.B.A. (Dean, Fac. of Arts) Prof.
Turberville, A. S., M.C., M.A., B.Litt. Ox. (Mod. H.) Prof.
Dainton, A H., M.A. Ox. Lectr
Richardson, G. W., M.A. Lond. (Anc. H.) Lectr.
Dickinson, J. C., M.A., B.Litt. Ox. Asst. Lectr.
Hendy, P. (H. of Painting) Hon. Lectr

History of Science

Gregory, J. C., B.Sc. Lond., F.I.C. Hon. Lectr.

Italian Lang. and Lit.

Ungaro, A., D.Sc. Rome Lectr.

Law

Hughes, J. D. I., M.A., B.C.L. Ox. (Dean, Fac. of Law) Prof.
Haggen, G. L., M.A., B.C.L. Ox. Reader.

Lectrs. (Pt.-time)
Burrill. H. R., LL.B.
Archibald, M., LL.B.
Bradley, D. W., LL.B.
Price, P. S., B.A. Ox.
Thackray, H. E., B.A. Camb.

Mathematics

Milne, W. P., M.A. Camb., M.A., D.Sc. Aberd. Prof.
Brodetsky, S., M.A. Camb., Ph.D. Leip. (Appd. M.) Prof.
Gabriel, R. M., M.A. Camb. (Math. Analysis) Reader

Lectrs.
Gilham, C. W., M.A. Camb., B.Sc. Lond.

Smeal, G., M.Sc. Melb. (Stat. Math.).
Ursell, H. D., M.A. Camb.
Mitchell, K., B.A. Camb. (Appd M.).

Medicine and Surgery, v. *infra*

Metallurgy, v. Technology

Mining, v. Technology

Music

Allam, E. W., M.A. Camb., B.Mus. Lond., A.R.C.M. Lectr.
Rhodes, V. H., B.A., Mus.B. Camb. Pt.-time Asst. Lectr.

Pharmacy, v. Physiology

Philosophy

Harvey, J. W., M.A. Ox. Prof.
MacIver, A. M., M.A. Ox. Lectr.
Curtis, S. J., Ph.D. Lond. Hon. Lectr.

Physics

Whiddington, R., M.A. Camb., D.Sc. Lond., F.R.S. Cavendish Prof.
Stoner, E. C., Ph.D., Sc.D. Camb., F.R.S. Reader.
Long, F. A., B.Sc. Lond. Lectr.
Ewles, J., M.A. Camb. Lectr.
Brindley, G. W., M.Sc. Manc. Lectr.
McDougall, J., M.A., Ph.D. Camb. Lectr.
Parnum, D. H., Ph.D. Lond. Temp. Asst. Lectr.
Curry, C., B.Sc. Durh. Demr.
Martin, W. E., B.Sc. Birm. Pt.-time Demr.
Wright, F. I., B.Sc. (R.).

Physiology

Hemingway, A., M.Sc., M.B., Ch.B. Prof.
Bain, W. A., B.Sc., Ph.D. Edin. (Pharmacol.) Reader.
Winfield, G., M.A. Camb. Lectr.
Happold, F. C., D.Sc., Ph.D. Manc. (Bio-Chem.) Lectr.
Lupton, A. W., M.C., Ph.C., M.P.S. (Pharmacy and Pharm. Chem.) Lectr.
Noltie, H. R., M.A., B.Sc. Aberd. Lectr.
Naftalin, J. M., M.B., Ch.B. Glas., D P.H. (Physiol. and Hyg.) Pt.-time Lectr.
Evans, W. C., M.Sc., Ph.D. Wales (Bio-Chem.) Demr.
Barclay, J. A., M.A., M.B., Ch.B. Demr.
Ludwig, C., M.B., Ch.B. Aberd. Demr.
Pyrah, L. N., M.Sc., M.B., Ch.M. Hon. Demr.
Dare, J. G., Ph.C. (Pharmacy) Asst.

Russian Lang. and Lit.

..... Prof.
Kolni-Balozky, J. Lectr.

Spanish Lang. and Lit.

..... Prof.
Penzol, P., L.D. Oviedo Actg. Hd. and Lectr.
de Irizar, Agustin Lectr.

Technology, v. *infra*

Theological Studies

James, Rev. E. O., D.Litt. Ox., Ph.D. Lond., F.S.A. (Philos. and Hist. of Religion) Prof.
Schofield, Rev. J. N., B.D. Lond., M.A. Camb. (O.T. Studies and Hebrew) Lectr.
Number of Recognized Teachers in local Theological Colleges.

Zoology, v. also Agric. [Prof.
Spaul, E. A., D.Sc., Ph.D. Lond.
Lloyd, Ll., D.Sc. (Entom. and Protozool.) Reader.
Henson, H., Ph.D. Birm. Lectr.

(R.) = Research Asst.

Kerr, T., M.A. Glas. Lectr.
King, Mrs. W. O. R., B.Sc. Asst. Lectr. Pt.-time.
Bullough, W. S., B Sc. Demr.
Vincent, Mrs., B.Sc. Manc., Ph.D. (R.).

Agriculture

Comber, N. M., D.Sc. Lond., A.R.C.S., F.I.C. (Agric. Chem.) Prof. and Head of Dept.
McGregor, J., B.Sc. Glas., N D.A., N.D.D. Prof.
Hammond, J., M.A., F.R.S Clive Behrens Lectr.
Robertson, G. C. A., M.C., M.A., B.Sc. Aberd. Lectr. and Farm Director.
Bywater, T. L., B.Sc. Wales Lectr.
Moore, H. I., M.Sc., Dip Agric.Sc. Camb. Asst. Lectr.
District Lectrs. [Leeds.
Thompson, H., B.Sc. Manc. and
Strachan, J., M.A., B.Sc. Aberd., N.D.A.
Robb, J., B.Sc. Aberd.
Gelling, W. E., B.Sc., N.D.A.
Ballardie, W. W., B.Sc. Durh., N.D.D.
Miller, T. E., M.Sc., N.D.A.
Hendrie, D. S., B.Sc. Glas., Dip. Ag. Sc. Camb., N.D.D., N.D.A.

Agric. Bacteriology

McKenzie, D. A., B Sc., N.D.A., N.D.D. Lectr.

Agric. Botany

Millard, W. A., D.Sc. Bris. Lectr. and Advisory Mycologist.
Burr, S., M.Sc. Lectr.
Asst. Lectrs.
Jones, A. Powell, M.Sc. Wales.
Chalmers, C.H., B.Sc. Edin., N.D.A.
Turner, Dorothy M., B.Sc., Dip. in Hort. Reading.

Agric. Chemistry

Jones, H. Trefor, M.Sc. Wales, A.I.C. Lectr.
Asst. Lectrs.
Willcox, J. S., B.Sc. Lond., A.I.C.
Hallsworth, E. G., B.Sc.

Agric. Economics

Long, W. H., M.A. Ox. Advisory Economist
Nutt, J. D., B.A. Brist., N.D.A. Asst. Lectr.
Jeffrey, A. G., B.Com. Tech. Asst. (R.).
Macfarlane, I., B Sc. Reading Stud. Asst.
Robinson, J. F., B.Sc. Wales Stud. Asst.

Agric. Engineering

..... Asst. Lectr.

Agric. Zoology

Thompson, H. W., M.Sc. Advisory Entomologist.
Asst. Lectrs.
Johnson, L. R., M.Sc.
Carrick, R., B.Sc. Glas., Ph.D. Edin.

Dairy Husbandry

Lamberton, J. K., B.Sc. Glas., N.D.A., N.D.D. Asst. Lectr.
..... Demr.

Horticulture

Hudson, C. E., N.D.H. Lectr.

Poultry Husbandry

Goode, C. W., N.D.A., N.D.D. Lectr. and Demr.

Veterinary Hygiene

..... Lectr.
Simmons, H. W., N.D.A. Crop Recorder.
10 Instrs. and Asst. Instrs. in Dairying, Hortic., Poultry, Farriery, and Bee-keeping.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Rowling, S. T., M.D. Lectr.

(R.) = Research Asst.

Bacteriology, v. Pathol.

Cancer, v. Pathol.

Forensic Med.

Sutherland, P. L., M.B., Ch.B., D.Sc. Glas. Prof.

Garland, H. G., M.D., M.R.C.P. (Toxicol.) Hon. Demr.

Infectious Diseases

Benn, E. C., M.B., Ch.B., D.P.H. Liv. Lectr.

Medical Ethics

Macdonald, W. S., M.C., M.B., Ch.B. Ed., D.P.H. Lectr.

Medical Hydrology

Holmes, G., M.B., B.Ch. Camb. Hon. Lectr.

Medicine and Clin. Med.

MacAdam, W., M.A., B.Sc., M.D. Glas., F.R.C.P. Prof.

Burrow, J. le F. C., M.D. Edin., Ch.B., F.R.C.P. (Clin. Med.) Prof. (C.).

Hartfall, S. J., B.Sc., M.D., M.R.C.P. (Therap. and Appd. Pharm.) Prof. (C.).

Vining, C. W., M.D. Lond., F.R.C.P., D.P.H. (Diseases of Children) Prof.

Tunbridge, R. E., M.Sc., M.D., M.R.C.P. Reader.

Ingram, J. T., M.D. Lond., F.R.C.P. (Skin Dis.) Lectr. (C.).

Hellier, F. F., M.A. Camb., M.D. Lond., M.R.C.P. (Skin Dis.) Lectr. (C.).

Tattersall, N., M.D. Lond. (Tuberculosis) Lectr.

MacAdam, W., M.A., B.Sc., M.D. Glas., F.R.C.P. (Dietetics and Metab. Med.) Lectr. (C.).

Moll, H. H., M.D. Rome, M.B., Ch.B., M.R.C.P. Lectr. (C.).

Allibone, E. C., M.D., M.R.C.P. Med. Tutor and Registrar.

Price, J. A., M.D. Belf., M.R.C.P. Hon. Demr.

Towers, J. R. H., M.A., M.D. Camb. Hon. Demr. (C.).

Obstetrics and Gynæcology

Claye, A. M., M.D., F.R.C.S., M.C.O.G. (Obst. & Gyn.) Prof. (C.).

Adamson, Mrs. R., M.D., B.S. Lond., F.C.O.G. (Obst.) Lectr. (C.).

Jeaffreson, B. L., M.D. Lond., F.R.C.S. (Gyn.) Lectr. (C.).

Currie, D. W., M.D., Ch.M., F.R.C.S. Lectr. (C.).

Blomfield, G. W., M.A. Camb., M.B., Ch.B., M.R.C.S., L.R.C.P. Tutor.

Ophthalmology

Foster, J., M.A., M.B., Ch.B. Camb. F.R.C.S. Lectr. (C.).

Black, G. W., M.B., B.S. Lond., M.R.C.S., L.R.C.P. Lectr. (C.).

Otology

Munby, W. M., Ch.M. Edin., F.R.C.S. Lectr. (C.).

Seed, G. S., M.B., Ch.B., F.R.C.S. Lectr. (C.).

Pathology and Bacteriology, including Cancer Research

Stewart, M. J., LL.D., M.B., Ch.B. Glas., F.R.C.P. (Path.) Prof. and Hd. of Dept. (C.).

McLeod, J. W., O.B.E., M.B., Ch.B. Glas., F.R.S. (Bact.) Brotherton Prof.

Passey, R. D., M.C., M.D., B.S., D.P.H. Lond. (Exper. Path.) Prof. and Dir. Cancer Research.

Fowweather, F. S., M.Sc., M.D., D.P.H. Liv., F.I.C. (Chem. P.) Reader.

(C.) = Clinical Lectr.

Orr, J. W., B.Sc., M.D., B.A.O., D.P.H. Belf.
(Exper. Path.) Reader and Asst. Dir. Cancer Research.

Lecturers

Gordon, J., M.D., M.R.C.P., D.P.H. (Bact.).
Polson, C. J., M.D. Birm., M.R.C.P., M.R.C.S. (Path.).
Carmichael, R., M.B., Ch.B. Edin. (Path.).
Johnstone, K. I., B.Sc., Ph.D., M.B., Ch.B. (Bact.).
Sutherland, P. L., M.B., Ch.B., D.Sc. Glas. (P. of Indust. Dis.).
Collinson, H., C.B., C.M.G., D.S.O., T.D., M.B., M.S. Lond., F.R.C.S. (Surg. Path.) (Dean, Fac. of Med.).
Stickland, L. H., M.A., Ph.D. Camb. (Exper. Bio-Chem.).

Cancer Research Fellows

Bonser, Mrs. K. J., M.D. Manc., L.R.C.P., M.R.C.S.
Price, D. E., M.B., B.S. Lond., M.R.C.S., L.R.C.P.
.....
.....
.....

Demonstrators

Wood, N., B.Sc., M.B., Ch.B. (Path. and Bact.).
Watson, G. N., M.B., Ch.B. (Path. and Bact.).
Borthwick, Miss G. R., Ph.D. Edin. (Path. and Bact.).
Horne, E. A., M.B., Ch.B. Aberd. (Path. and Bact.)
Stewart, I. S., M.B., Ch.B.
Ellis, L., B.Sc., Ph.D., A.I.C. (Chem. Path.).
Davidson, C. L., M.B., Ch.B., B.Ch.D. (Pt.-time).
Wheatley, Bertha, M.B., Ch.B. (Bact.) (Pt.-time).
Cattley, R., M.B., C.M., B.Sc. Edin., D.P.H. Camb.
(Path.) Hon. Fellow.
Lissimore, N., M.B., Ch.B. (Path.) Hon. Demr.
Symons, H. W., M.B., Ch.B., F.R.C.S. (Surg. Path.) Hon. Demr.
Stewart, Clara, M.B., B.S. Lond. (Path.) Hon. Demr.
Garland, H. G., M.D., M.R.C.P. (Med. Path.) Hon. Demr.
Zinnemann, K. S., M.D. Frankfort (Bact.) (R.).
Wainman, Miss L. M., M.B., Ch.B. (Pt.-time) (R.).

Psychological Medicine

..... Prof.
McGrath, M. J., M.B., B.Ch., B.A.O. R.U.I., D.P.M. (Mental Diseases) Lectr. (C.).

Public Health, v. also Path.

Jervis, J. J., M.D. Edin., D.P.H. Lond. (P.H. Admn) Prof.
Sharpe, J., M.D., F.R.F.P.S. Glas., D.P.H. Lond. Hon. Demr.

Radiology and Electro-Therapeutics [Lectr.

Scargill, H. B., M.B., B.S. Lond.
Lees, J. M., M.A., B.M., B.Ch. Ox., L.M.S.S.A., D.M.R. Lectr.
Digges la Touche, A. A., M.A., M.B., B.Ch. Camb., L.R.C.P., F.R.C.S., D.M.R. Lectr.

Rheumatism Research

Collins, D. H., M.D. Liv., M.R.C.S., L.R.C.P. Fellow.
Goldie, W., M.A., M.B., Ch.B. Aberd., M.R.C.P. Edin. Fellow.

Surgery

Flint, E. R., M.B., Ch.B., F.R.C.S. Prof. & Dir. of Surg. Res. (C.).
Moir, P. J., M.C., M.B., Ch.B. Glas., F.D.C.S. Clin. Prof.

(C.) = Clinical Lectr. (R.) = Research Asst.

Broomhead, R., M.B., Ch.B., F.R.C.S. (Orthop. S.) Lectr. (C.).
Long, M. Hilary E., M.Sc., M.B., B.S. Lond., F.R.C.S., L.R.C.P. Reader.
Oldfield, M.W.C., M.A., B.M., B.Ch. Ox., F.R.C.S. Surg. Tutor.
Latchmore, A. J. C., M.B., B.S. Lond., F.R.C.S. Surg. Tutor.
Shucksmith, H. S., M B., Ch.B., F.R.C.S. Surg. Tutor
Moir, P. J., M.C., M.B., Ch.B. Glas., F.R.C.S. (C.).
Chamberlain, D., M.B., Ch.M., F.R.C.S. (C.).
Armitage, G., M.C., M.D., Ch.M., F.R.C.S. (C.).
Symons, H. W., M.B., Ch.B., F.R.C.S. (C.).
Allison, P. R., B.Sc., M.B., Ch.M., F.R.C.S. (C.).
Pain, A. B., Ch.M., F.R.C.S. (Orthop.) (C.).
Henderson, W. R., M.B., Ch.B. Edin., F.R.C.S. (Neurol. Surg.).

Vaccination

Middlemiss, J. E., F.R.F.P.S. Glas., M.R.C.S., L.R.C.P. Instr.

Venereal Diseases

Bibby, J. P., M.B., Ch.B., M.R.C.P. (C.).

Dentistry

Dental Anatomy and Physiology

Sykes, J. G., B.Ch.D. Lectr. (C.).

Dental Histology

Ramsden, D. C., L.D.S. Hon. Demr. (C.).

Dental Mechanics [Lectr. (C.).

Stephens, H. D., L.D.S. Tutor.

Dental Metallurgy

Lowson, W., B.Sc. Lond., and Leeds, F.I.C. Lectr.

Dental Path. and Bact.

Cork, D. J., L.D.S. Lectr.

Dental Radiology

Scargill, H. B., M.B., B.S. Lond. Lectr.

Dental Surgery

Read, T. T., F.R.F.P.S. Glas., L.R.C.S., L.R.C.P. Edin., L.D.S. Glas. Prof. & Warden (C.).
Cocker, J. P., L.D.S. Lectr. (C.).
Thorburn, W. S., M.Sc., L.D.S. (C.).
Iles, G. D., L.D.S. (C.).
Crawford, J. K., L.D.S. (C.).
Summers, A. E., L.D.S. (C.).
Macrae, J. M., L.D.S. (C.).
Brenan, S. H., L.D.S. (C.).
Ross, R. N., B.Ch.D. (C.).
Johnson, H. G. L., L.D.S. (C.)
Hollings, M. R., B.Ch.D. Lectr.
Fell, S. R., L.D.S. (Prosth. D.) Lectr.
Shaw, H., L.D.S. Demr.
Covell, A. G. (Prosth. D.) Hon. Demr.
Southam, F. L., L.D.S. Sr. House Surgeon.
6 Hon. Clin. Tutors, 4 House Surgeons, 2 Asst. House Surgeons.

Orthodontia

Wilkinson, G. L., M.R.C.S., L.R.C.P., L.D.S. Lectr. (C.).
Wood, T. Jason, B.Ch.D., L.D.S. Hon. Demr.
2 Hon. Dental Anæsthetists.

Technology

v. also Agriculture

Engineering, Civil and Mech.

David, W. T., M.A., Sc.D. Camb., D.Sc. Wales, M.I.C.E., M.I.Mech.E. Prof.

Evans, R. H., M.Sc. Manc., Ph.D., M.I.Struct.E. Lectr.
Richardson, S G., M.Sc. Lectr.
Caton, E. E., M.Sc. Lectr.
Leah, A. S., Ph.D. Asst. Lectr
Thomlinson, J., Ph.D. Asst. Lectr
Pugh, B., B.Sc. Wales Demr.
Weinberg, S., B.Sc. Manc. Demr.

Engineering, Elec.

Wheatcroft, E. L. E., M.A. Camb. Prof.
French, W. E., M.I.E.E. Lectr.
Stuart, W. S., M.Eng. Liv. Lectr.

Coal Gas and Fuel Industries with Metallurgy

Townend, D. T. A., D.Sc. Lond. Livesey Prof.
Hodsman, H. J., M.B.E., M.Sc., F.I.C. (Gas Chem.) Lectr
Preece, A., M.Sc Wales (Met.) Lectr.
Roberts, A. L., Ph.D. (Refractory Materials) Lectr. & (R.).

Research Chemists

Wood, J. W., M.Sc.Tech. Manc., A.I.C.
Dent, F. J., Ph.D.
Key, A., Ph.D.

Research Assistants

Blackburn, W. H., Ph.D.
Eastwood, A. H., Ph.D.
Millett, H. C., B.Sc., Ph.D. Temp.
Claydon, E. W., B.Sc. Lond.
Moignard, L. A., B.A., B.Sc. Ox.
Richardson, G. T., Ph.D. Sheff.
Simister, E., B.Sc.

Colour Chemistry and Dyeing

Rowe, F. M., D.Sc., F.I.C. Prof.
Cross, E. J., B.Sc., Ph.D. Lond. (Colour Chem.) Lectr.
Bird, C. L., M.Sc., F.I.C. (Dyeing) Lectr.
Peters, A. T., Ph.D. Manc. Asst. Lectr.
Osborn, W., B.Sc. (Dyeing) Demr.
Stevens, C. B., B.Sc. (Dyeing) (R.).
Denham, W. S., B.Sc. Lond., D.Sc. St. And., F.I.C. Hon. Fellow.

Leather Industries

McCandlish, D., M.Sc. (Dean, Fac. of Tech.) Prof.
Atkin, W. R., M Sc. Lectr.
Anderson, H., B.Sc. Asst. Lectr.
Shuttleworth, S. G., M.Sc. S.A. Procter Research Fellow

Procter International Research Laboratory

..... Hon. Director.
..... (R.).

Mining

Atkinson, F. S., M.Eng. Sheff., M.I.M.E. Prof.

Lectrs.

Brown, T., M.Sc., M.I.Min.E. (Mine Surveying).
Crossland, J., M.Sc., M.I.Min.E.

Textile Industries

King, A. T., B.Sc. Lond., F.I.C. Prof.

Readers

Speakman, J. B., D.Sc. Manc., F.I.C., F.T.I. (T. Chem.).
Astbury, W. T., M.A., Sc.D. Camb. (T. Phys.).

Lectrs.

.....
Hollis, T. (Yarn Manuf.).
Yewdall, A. (Cloth Struct., etc.).
Pickles, F. (T. Testing).
Priestley, G. (Cloth Anal.).
Farley, W. H. (T. Design) Asst. Lectr.
Woods, H. J., B.A. Ox. (R.).
Bailey, K., Ph.D. Birm., M.Sc. Lond., A.I.C. (R.).
Whewell, C. S., Ph.D. (R.).

(R.) = Research Asst.

Bell, Florence O., B.A. Camb. (R.).
Rudall, K. M., M.Sc. N.Z., Ph.D. (R.).
Wilsdon, B. H., M.A., B.Sc. Ox. (Dir. Res. Students at Torridon).

Physical Education

Morgan, R. E., B.A. Lond. Director.

University Extension

Staff Tutors: Williams, J. R. B.A.; Johnson, L. G., B.A. Sheff.; McCulloch, F. J., B.A.; Holman, F. M. H., M.A. Camb.; Hardman, H., B.A. (Com.) Manc.; Raybould, S. G., B.Sc. Lond.; Irving, J., B.A. Camb.; Baines, H., B.A.

AFFILIATED COLLEGES

COLLEGE OF THE RESURRECTION, MIRFIELD (Warden—Rev. J. Barker, M.A. Ox.), and RAWDON COLLEGE (Principal—Rev. A. C. Underwood, D.D.).

TECHNICAL COLLEGE, HUDDERSFIELD (Prin.—J. F. Hudson, M.A., B.Sc.).

DIOCESAN TRAINING COLLEGE, YORK.

PRINTING DEPARTMENT OF THE LEEDS COLLEGE OF TECHNOLOGY.

GENERAL INFORMATION

The Leeds School of Medicine, founded 1831, and Yorkshire College, established as a College of Science in 1874, were united in 1884. The College formed part of the Victoria Univ. from 1887 to 1904, when a Univ. was established by Royal Charter in the city of Leeds.

BROTHERTON LIBRARY, 215,232 books and pamphlets. Medical Library, 18,728 books and pamphlets. Agricultural Library, 20,666 books and pamphlets. The Brotherton Collection, 36,903 books and pamphlets, including 300 incunabula, also a large collection of MSS., is housed in the Brotherton Library. Other special collections: (*a*) 2300 vols. in French on Great Britain, printed before 1801; (*b*) 270 vols. on events in France in 1870–71; (*c*) Icelandic and Scandinavian collection of 10,936 vols. and pamphlets; (*d*) Mitrecey Collection of 612 vols. on occultism; (*e*) All Souls Collection of 2294 vols. in early science and theology; (*f*) Library of the Leeds Philosophical and Literary Society, presented in 1936; (*g*) Chaston Chapman Chemistry Library, 3000 vols. and many thousands of pamphlets.

MUSEUMS: Anatomy, Dyeing, Materia Med., Path., Textile, Zool. LABORATORIES: Agricultural Chemistry, Botany, Chemistry, Colour Chem. and Dyeing, Engin. (Elec., Civ., Mech.), Geol., Leather Industries (including Procter Internat. Research), Maths., Metallurgy, Mining, Path. and Bacteriology, Cancer, Physics, Physiol., Textile, Zool. OBSERVATORY, 18¼" reflector telescope. FARM, 348 acres, including Poultry School. HOSPITALS available for Clinics: Infirmary (627 beds) and several others; Asylum (2400 inmates).

FACULTIES. Arts (including Theology), Economics and Commerce, Law, Science, Technology [including Agric., Coal Gas and Fuel with Metallurgy, Colour Chemistry and Dyeing, Engineering (Civ., Elec., Mech.), Leather Industries, Mining, Textile Industries], Medicine (including Dentistry and Pharmacy). *Deans*: Profs. A. Hamilton Thompson (Arts), J. H. Richardson (Econ. and Commerce), J. D. I. Hughes (Law), R. Whytlaw-Gray (Science), D. McCandlish (Technology), Harold Collinson (Medicine). *Tutor of Women Students*: Dora M. Hibgame, M.A. Ox.

In connexion with each of the technological departments there is an Advisory Committee, which includes representatives of the industry concerned.

ADMISSION. See Appendix I.

DEGREES. Obtainable after a 3 yrs.' course from matricn.—B.A., B.Sc. (Honours degree usually 4 yrs.), LL.B., B.Com. (which may be taken with an Applied Science as one of the principal subjects), 3 yrs. for degree, or 4 yrs. including Diploma of Printing Dept. of Leeds Tech. Coll.; M.B., Ch.B., B.Ch.D. 5½ to 6 yrs.

General Honours B.A. and B.Sc. degree are conferred (v. p. 6).

Mining students receive practical instruction in mines under arrangements made with local owners, but the courses are not intended to supersede the usual apprenticeship.

Hons. students of Mod. Langs. (French, German, Russian, Spanish) normally spend 3rd term of 2nd year at some approved foreign Univ.

Supplementary Textile studies may be combined with a B.A. or B.Com. course. Any of the Tech. subjects may be taken in a B.Sc. course. The Law Dept. prepares students for the Bar and Solicitors' examns. as well as for the Univ. degrees.

HIGHER DEGREES. B.D., M.A., LL.M., M.Com., M.D., Ch.M., 1 yr.; M.Ed., M.Sc., 2 yrs. (for holders of Hons. B.Sc., 1 yr. after the bachelorship). Graduates of approved Univs. (all the chief Univs. of the world, including institutions recognized by the Assocn. of Amer. Univs., v. App. VIII.) may obtain the M.A., Ph.D. (v. p. 13), or M.Sc. by 2 yrs. of research. M.A., Ph.D., or M.Sc. of this Univ. may obtain the Litt.D. or D.Sc. 6 yrs. after the bachelorship.

Graduates of other Univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as graduates from the date of original graduation.

DIPLOMAS. Animal Biology, Commerce, Education, Fuel and Metallurgy, Gas Engineering, Geography, Textiles, 1 yr. (sometimes 2) after graduation. Educational Administration, Public Administration, 2 winter sessions. Biblical Studies, 2 yrs. part-time. Social Organization and Public Services, 2 yrs. (1 for graduates). Engineering (Civil, Electrical, Gas, Mechanical, Mining), Fuel and Metallurgy, Mining and Metallurgy, Dyeing, Leather, Textile Industries, 3 yrs., reducible under certain conditions to 2. Agriculture, 3 yrs. (2nd and 3rd yrs. 2 winter terms only). Colour Chemistry, 4 yrs. Part-time for apprentices: Gas Engineering, Fuel and Metallurgy, 4 yrs.; Colour Chemistry and Dyeing, 5 yrs. Public Health, 12 mos. after graduation. Psychological Medicine, 6 mos. after graduation. Nursing, involving 4 yrs.' hospital training and 3 mos.' lectures. Dental Surgery, 4 yrs. including 2 in Univ.

EVENING COURSES for advanced students in Technological subjects are conducted in co-operation with the Leeds and West Riding Education Committees.

FEES. Matricn., £2. Registration, £2 (£5 for overseas students). Composition fees for tuition (including Union): Arts, £34 a session; Law, £14: 11s.; Science, £42; Technology, £46 (special materials charge in addition of £10 for overseas students in Textiles Dept.); Agric. Degree, 1st session £42, 2nd and 3rd sessions (and 4th if required) £46; Agric. Dipl., 1st session £31, 2nd and 3rd sessions £20. Course for Dipl. in Educn., £35 p.a.; Dipl. in Social Organization, £27 p.a. Medicine: complete course for M.B., including hospl. practice and maternity hostel residence, £296. Dentistry (including hospl. practice and

pupilage): Dipl., £247; Degree, £280. Research fee, £18 a session. Examns.: Arts, Science, etc., £6; B.Ch.D., £16; graduation fee, £7; Medicine (including graduation), £19; L.D.S., £16; conferment fee, £6.

POST-GRADUATE SCHOLARSHIPS, ETC. Fellowships and scholarships for research in Gas, Col. Chem., Textiles, Med., *see* App. II. Also, for graduates of the Univ., £150 for 2 yrs. for research and advanced study; £150 for 2 yrs. for research in English, or History, or Economics; £100 for research in Chem. or Pharm.; £70 Schlp. for research in Arts Faculty; £125 for higher Humanistic study, for graduates of Leeds or Sheffield; £45 for advanced study in Greek or Latin; £25, Forensic Med. and Hygiene; Frank Parkinson Fellowships, Scholarships or Grants, of varying amount, awarded normally for 2 yrs.

RESIDENCE. One hostel for 140 men and three for women. Fees, men £64, women £60 to £63, per session of 32 weeks. A site of 160 acres on the outskirts of the city has been acquired for hostels for men and women students.

APPOINTMENTS BOARD. Secretary: W. R. Grist, B.Sc. Lond., The University, Leeds 2.

Number of registered students (1937–38) to whom assistance has been given: 413. Of these, 214 are teachers, 42 are engineers, 66 are technical and scientific workers (chemists, physicists, etc.), and 79 have taken up work of an administrative character.

OVERSEAS STUDENTS' COMMITTEE. Secretary, The University.

An OLD STUDENTS' ASSOCN. was formed in 1923.

UNIVERSITY EXTENSION. Lecture courses and Tutorial classes are provided in co-operation with the Workers' Educnl. Assocn. and Local Education Authorities, and an Annual Summer School in connexion therewith was instituted in 1919.

In connexion with the Agric. Dept. a considerable part of the time of lecturers of the Univ. is devoted to work in local centres.

PUBLICATIONS. *Calendar* (Sept.), 4s.; Annual Reports of the Univ. and of Tech. Depts.; List of Researches, etc.; *Gryphon*, 3s. annually (students' magazine); *Union Handbook*; Prospectuses of various Depts.

THE YEAR 1937–38

BENEFACTIONS. Further grant of £10,000 over five yrs. from Rockefeller Trustees for research in X-ray analysis; £3526 : 19 : 11 collected by public subscription and presented by Leathersellers' Company for endowment of Procter Research Fellowship; £1000 from United Tanners' Federation and £25 from Federation of Curriers, etc., for Leather Dept.; three scholps. tenable in Mining Department provided by Mr. T. Campbell Futers, the New Consolidated Goldfields Company and the Royal Dutch Shell Group and Petroleum Oil Company respectively; £200 p.a. for 10 yrs. from Colonel C. H. Tetley (Pro-Chancellor) for Studentship in History of Art in Yorkshire; grant of 50% (up to £12,500) of cost of physical training facilities provided by National Fitness Council (through Univ. Grants Committee) and individual donations amounting to £10,320 received towards balance of cost; two Research Assistantships in Textile Physics and Textile Chemistry respectively provided by International Wool Publicity and Research Secretariat; Fellowship for research in Textile Chemistry provided anonymously by firm of manufacturers; £100 from Mr. Hugh Hield for theological books; £50 from Yorkshire District Area Education Committee of National Association of Local Government Officers; portrait of Professor J. Kay Jamieson presented by subscribers to

Testimonial Fund; the late Rev. T. P. Levett's collection of butterflies, moths, etc., presented to Zoology Department by Major W. W. Levett, many valuable gifts to Library and to various Depts.

NEW BUILDINGS AND EQUIPMENT. New Union building in course of erection; contract signed for Central Block (estimated to cost £210,000); transfer of certain Depts. for clearance of site; plans for extension of gymnasium, erection of swimming bath, two squash courts and open-air court in preparation; laboratory for histological teaching provided in Anatomy Department; improvements in Maternity Hostel.

NEW DEPARTMENTS AND POSTS. Course of training instituted for Serving Probation Officers; Director of Physical Training appointed; Lectureship in Histology; Clinical Lectureship in Neurological Surgery; Lectureship in Medical Hydrology; additional Demonstratorship in Bacteriology and additional Research Assistantship in Textile Physics instituted.

CHANGES IN REGULATIONS. Biblical Studies in Ordinary B.A. degree; Ordinances and Regulations for M.B., Ch.B. degrees amended.

EXTRA-MURAL WORK. University Extension Courses at 8 centres; 83 Tutorial Classes; Tutorial Class Summer School at Saltburn. Over a hundred Popular Lectures by members of staff in County. The Agric. Dept. held junior day classes for those between 14 and 18 years of age at 10 centres; classes for older people were arranged in Agriculture at 14 centres; in Horticulture at 6 centres; in Poultry-keeping at 4 centres; in Bee-keeping at 5 centres; and courses in Fruit and Vegetable Preservation at 14 centres; in Farriery at 1 centre; in Hedging at 3 centres, and in Dry-walling at 1 centre. In addition, 451 lectures were given at 288 centres.

OTHER DEVELOPMENTS. Revised scheme of grading and salaries adopted for Assistant Lecturers and Lecturers; improved conditions of employment introduced for laboratory boys.

RETIREMENTS. Sir James B. Baillie (Vice-Chancellor); Prof. Paul Barbier (French); Prof. J. W. Cobb (Coal Gas and Fuel Industries); Prof. L. R. Braithwaite (Clinical Surgery); W. P. Welpton (Master of Method and Lecturer in Education).

RESIGNATIONS. Prof. P. S. Noble, on appt. as Regius Prof. of Latin at Aberdeen Univ.; Dr. W. H. Pearsall, on appt. as Prof. of Botany at Sheffield Univ.

DEATHS. His Grace the Duke of Devonshire (Chancellor); Prof. W. H. Maxwell Telling (Forensic Med.); J. W. Eves (Hortic.); P. E. King (Dyeing); Emer. Prof. W. Stroud; H. E. Crooks (Pharmacy).

PUBLIC LECTURES were delivered by: Dr. F. Simon, "The Temperature Region below 1 degree absolute." Dr. H. H. Read, "The Natural History of Metamorphic Rocks." Mr. T. H. Pear, "The place of Imagery in Mental Processes." Dr. H. Jeffreys, "Scientific Method." Miss I. Manton, "Chromosome Structure." Dr. E. K. Rideal, "Some Recent Advances in Surface Action." Mr. W. H. Auden, "Poetry and the Public." Miss Storm Jameson, "The Novel in Contemporary Life." Field-Marshal Sir Philip Chetwode, "European Military Problems." Mr. C. D. Broad, "The Life and Personality of Henry Sidgwick." Mr. E. W. Allam, "The Aesthetics of Music." Professor P. Janelle, "Un tableau de l'Angleterre en 1555." Mr. R. K. Orr, "William Byrd." Rev. T. W. Manson (Manchester), 8 lectures on "St. Paul: his life, letters and teaching." Ten Music Recitals were given.

HONORARY DEGREES. *LL.D.*—The Rt. Hon. Arthur Neville Chamberlain,

Hon. Rupert E. Beckett. *Litt.D.*—(*in absentia*) Senatore Giovanni Gentile. *D.Sc.*—Prof. Alfred Fowler, Mr. C. J. T. Cronshaw, Prof. E. J. Garwood. *Ph.D.*—Mr. Walter Parsons. *M.Sc.*—Mr. W. S. Bisat.

STUDENTS. Full-time: 1737, including 230 graduates. Part-time: 378, including 78 graduates.

DEGREES. B.A., 96; M.A., 15; M.Ed., 10; LL.B., 15; LL.M., 1; B.Sc., 98; M.Sc., 11; D.Sc., 1; M.B., Ch.B., 49; M.D., 6, Ch.M., 1; B.Ch.D., 3; B.Com., 12; Ph.D., 27.

UNIVERSITY OF LIVERPOOL

Founded 1903

VISITOR—H.M. THE KING.

CHANCELLOR—Rt. Hon. the EARL OF DERBY, K.G., G.C.B., G.C.V.O., LL.D.

PRO-CHANCELLORS—Sir CHARLES SYDNEY JONES, M.A., LL.D.; R. H. ARMSTRONG.

VICE-CHANCELLOR—ARNOLD D. MCNAIR, C.B.E., M.A., LL.D. Camb. and Glas.

PRO-VICE-CHANCELLOR—Prof. T. B. ABELL, O.B.E., M.Eng., R.C.N.C. (Retd.), M.Inst. N.A.

TREASURER—Sir FREDERICK J. MARQUIS, M.A., B.Sc.

CHAIRMAN OF CONVOCATION—Mrs. ERIC H. RIDEOUT, B.A.

REGISTRAR—STANLEY DUMBELL, M.A.

ASSISTANT REGISTRAR—S. W. C. PHILLIPS, B.A.

LIBRARIAN—K. POVEY, M.A. Camb.

Telephone: Liverpool, Royal 5460.

TEACHING STAFF

Anatomy [Derby Prof.

Wood, W. H., B.Sc., M.D. Manc. Lectrs.

Nuttall, H. C. W., F.R.C.S., L.R.C.P., D.P.H. (Appl. Surg. A.).

Baker-Bates, E. T., M.D., M.R.C.P. (Appl. Med. A.).

Roberts, R. E., M.D., B.Sc., D.P.H., D.M.R.E. (Appl. Radiol. A.).

Jones, Tudor J., D.Sc. Glas., M.B., Ch.B. (Embryol.). Demrs.

Beattie, W. M., M.A., M.B., Ch.B. Camb., M.R.C.S., L.R.C.P.

Diggle, W. S., M.B., Ch.B., M.Ch. Orth., F.R.C.S.

Gillis, L., M.B., Ch.B. Witw., M.Ch.Orth.

Macmillan, E. W., M.B., Ch.B. Edin.

Griffin, S. G., M.B., Ch.B., M.R.C.S., L.R.C.P. Rankin Fellow.

Hughes, H., B.A., M.B., Ch.B. Rankin Fellow.

Abrahams, A. M., M.B., Ch.B. Gee Fellow.

Archæology, v. also Palæog. and Associated Institutions

Droop, J. P., M.A. Camb., F.S.A. (Classical A.) C. W. Jones Prof.

Blackman, A. M., M.A., D.Litt. Ox. (Egyptology) Brunner Prof.

Garstang, J., M.A., B.Litt., D.Sc. Ox., LL.D., F.S.A. (Methods and Practice of A.) Rankin Prof.

Newberry, P. E., M.A. (Egyptian Art) Reader.

Architecture, v. also Civ. Design, Engin.
Budden, L. B., M.A., F.R.I.B.A. Roscoe Prof.
Scott, Sir Giles G., LL.D., R.A., P.P.R.I.B.A. (Eccl. Archit.) Reader.

Sr. Lecturers
Marshall, J. E., B.Arch., F.R.I.B.A.
Cole, E. R. F., B.Arch., F.R.I.B.A.
Winston, D., M.A. Harv., B.Arch., A.R.I.B.A.

Lectrs.
Curtis, F. F. C., D.Ing. Darm.
Eden, W. A., M.A., B.Arch., A.R.I.B.A.
Velarde, F.X., B.Arch., F.R.I.B.A.
Todd, A. C., B.Arch., A.R.I B.A.
Thearle, H., Dipl. Arch., A.R I.B.A.
Brooke, D., M.A., B.Arch., A.R.I.B.A., M.I.Struct.E.
Hutton, C. W., B.Arch.
Brandon-Jones, J., Dipl. Arch. A.A., A.R.I.B.A.
Potter, J. A., B.A., A.R.I.B.A.
Manthei, R. A., A.C.G.I., D.I.C. (Structural Engineering) Spl. Lectr.
Mawson, H., D.Sc.(Eng) Lond., A.R.C.S. (Strength of Materials) Spl. Lectr.
Penn, W. C., R.O.I. (Drawing from the Life) Instr.
Smith, H. Tyson, A.R.B.S. Hon. Instr. in Craftsmanship.

Bacteriology, v. Med.

Bibliography
Yates, Dora E., M.A. Lectr.

Bio-Chemistry
Channon, H. J., B.A., D.Sc. Lond., F.I.C. Johnston Prof.
Coope, R., B.Sc., M.D., M.R.C.P. (Clin. Chem.) Lectr.
Gaddie, R., B.Sc., Ph.D. Edin. Sr. Lectr.
Loach, J. V., B.Sc., Ph.D. Birm., F.I.C. Lectr.
Platt, A. P., B.Sc. Asst. Lectr.

Botany
Thompson, J. McLean, M.A., D.Sc Glas., F.L.S. H. Gaskell Prof.
Knight, Margery, D.Sc., F.L.S. Sr. Lectr.

Lectrs. and Demrs.
Stirling, J., D.Sc. St. And., F.L.S.
Mathias, W.T., M.Sc.Wales, F.L.S.
Horton, W., M.Sc. (Plant Path.) Hon. Lectr.
Wilkinson, J., B.Sc. Temp. Lectr.
Watson, E. Vernon, Ph.D. Edin. Temp. Lectr.

Celtic
Foster, I. L., M.A. Wales. Lectr.
Owen, E., M.A. (Welsh Mediæval Antiq.) Reader.

Chemistry v. also Bio-Chem.
Robertson, A., M.A. Aberd., B.Sc., Ph.D. Glas. (Org. C.) H. Harrison Prof.
Lewis, W. C. McC., M.A. Belf., D.Sc., F.R.S., F.Inst.P. (Inorg. and Phys. C.) Grant-Brunner Prof.
Hilditch, T.P., D.Sc. Lond., F.I.C. (Industrial Chem.—Oils, Fats and Waxes) Campbell-Brown Prof.

Senr. Lectrs.
Kay, F. W., M.Sc. Manc., Ph.D. Berl. (Applied Organic C.).
Griffith, R. O., D.Sc., A.I.C. (Phys.).

Lectrs. and Demrs.
Edwards, D. M., M.C., B.Sc. (Inorg.).
Shutt, W. J., D.Sc. (Phys. and Electrochem.).
McKeown, A., D.Sc. (Phys. and Chem. Phys.).
Doran, W., M.Sc., A.I.C. (Org.).
Nance, J. T., M.A. Ox. (Inorg.).
Occleshaw, V. J., M.Sc., A.I.C. (Inorg.).

Morton, R. A., Ph.D., D.Sc., F.I.C. (Inorg. and Spectrosc.).
McGookin, A., Ph.D., B.Sc., A.I.C. (Org.).
Rogerson, H., M.Sc. Vict., F.I.C. (Inorg.) Demr.
Ham, A. J., B.Sc. Brist., A.I.C. (Inorg. and Phys.).
Meara, M. L., B.Sc., Ph.D. Brist. (Indust. C.) Demr.

Civic Design

Holford, W. G., B.Arch., A.R.I.B.A., M.T.P.I. Lever Prof.
Dougill, W., M.A., B.Arch., A.R.I.B.A., M.T.P.I. Leverhulme Lectr.

Special Lectrs.

Mattocks, R. H., M.T.P.I. (Landscape Design).
Clarke, J. J., M.A., M.T.P.I. (Law of Housing and Town Planning).
Poole, R., F.S.I., M.T.P.I. (Civic Engin. and Hygiene).
Ward, M., M.R.S.I. (Civic Engin. and Hygiene).
Eden, W. A., M.A., B.Arch., A.R.I.B.A. (Rural Planning) Hon. Lectr.

Classics : Greek

Campbell, A. Y., M.A. Camb. Gladstone Prof.
Hudson-Williams, H. Ll., B.A. Wales and Camb. Asst. Lectr.
Bezzant, Rev. Canon J. S., M.A., B.D. Ox. (Hellenistic Gk.) Hon. Lectr.

Classics : Latin

Mountford, J. F., M.A. Ox. and Birm., D.Litt. Birm. Prof.

Lectrs.

Bonner, S. F., M.A. Camb.
Walbank, F. W., M.A. Camb.
Addison, C. J. S., M.A. Edin., B.A. Camb. Asst. Lectr.

Commerce

Dewsnup, E. R., M.A. Manc. Chaddock Prof
Campbell, C. D., M.A., B.Com., Ph.D. Lectr.
Taggart, P., F.S.A.A. (Accountancy) Spl. Lectr.
Mort, J. H. (Banking) Spl. Lectr.
Lissenden, G. B., M.Inst.T. (Ind. Traffic Management) Spl. Lectr.
White, K., B.A., B.Litt. Ox. Asst. Lectr.

Dentistry, v. *infra*

Economic Science, v. also Com.

Allen, G. C., Ph.D., M.Com. Birm. Brunner Prof.
Macdonald, R. A., M.A. Senr. Lectr.
Hyde, F. E., M.A., Ph.D. Lond. (Ec. Hist.) Lectr.

Education

Porteous, A. J. D., M.A. Edin. and Ox. Prof.
Brigstocke, W. O., B.A. Lond. Senr. Lectr.

Lectrs.

Barnes, L. J., M.C., B.A. Ox.
Palmer, R., B.Sc. Lond.
Tozer, A. H. D., M.A. Camb.
Bradley, F. W., Ph.D. Camb., M.Sc. Spl. Lectr.
Doran, W., M.Sc., A.I.C. Spl. Lectr.
Edwards, E., M.A. Tor., B.Sc. Wales Spl. Lectr.
Winchester, Lily, M.A. Spl. Lectr.
Wallace, J. E., Mus.D. Durh., F.R.C.O. (Music).
Roaf, H. E., M.D. Tor., D.Sc., L.R.C.P., M.R.C.S. (Physiol. and School Hyg.).
Griffiths, J., M.A.

Teachers

Laverock, Florence H. (Drawing and Handwork).
Cameron, Elizabeth L. (Writing and Illumination).

Nelson, Mary F., B.A. (Handwork).
Milne, Susan Tutor and Demr.

Egyptian

Blackman, A. M., M.A., D.Litt. Ox. Lectr.

Engineering, v. *infra*

English Lang. and Philol.

Grattan, J. H. G., B.A. Lond. Baines Prof.
Colledge, E., M.A. Asst. Lectr.
Ward, H. G., B.A. Lond. Hon. Lectr.

English Lit.

Martin, L. C., B.Litt., M.A. Ox. King Alfred Prof.
McIlwraith, A. K., M.A., D.Phil. Ox. A. C. Bradley Lectr.
Trenery, Grace R., M.A. Lectr.
Davenport, A., M.A. Asst. Lectr.
Humphreys, A. R., M.A. Camb., A.M. Harv. Asst. Lectr.
Jones, Doris C., M.A. Tutor
Rutland, W. R., B.A. Lond., B.Litt., D.Phil. Ox. William Noble Fellow.

Entomology

Gordon, R. M., O.B.E., M.D., Sc.D., D.P.H. Dub, D.T.M. Dutton Prof.

Esperanto

Collinson, W. E., M.A. Lond., Ph.D. Buchanan Lectr.

Fisheries, v. Oceanography

French [J. Barrow Prof.
Eggli, J. E., Ag. des L., D. ès L.
Fletcher, F. T. H., M.A., D.Litt. Birm., D. de l'U. Nancy Senr. Lectr.
Moffat, Margaret M., M.A., D. de l'U. Paris Lectr.
Evans, W. Hugo, B.A. Wales, D. de l'U. Paris Lectr.
Knowles, Dorothy, M.A. Leeds, L.R.A.M. Lond., D. ès L. Paris Lectr.
Cullerne, A. C., B.A. Temp. Asst. Lectr.
3 French Tutors.

Geography, v. also Geol.

Roxby, P. M., B.A. Ox. Rankin Prof.
Smith, W., M.A. Lectr.
Baker, S. J. K., M.A. Lectr.
Varley, W. J., M.A. Wales, F.R.Met.Soc., F.S.A. Lectr.

Geology

..... Herdman Prof.
Neaverson, E., D.Sc., F.G.S. (Palæont.) Senr. Lectr.
Double, I. S., M.Sc., F.G.S. Lectr. and Demr.
Holgate, N., M.Sc. Manc. Temp. Lectr. and Demr.

German

Collinson, W. E., M.A. Lond., Ph.D. (also Hon. Lectr. in Comp. Philol.) Prof.
Picton, Ænid, B.A. Wales Lectr.
Heydorn, Marianne H. G. Tutor.
Garcke, Rev. H. Tutor.

Hebrew and Ancient Semitic Languages

Martin, W. J., M.A. Dub., B.D. Princeton Theol. Sem., Ph.D. Leipzig Rankin Lectr.

Hispanic Studies: Portuguese and Catalan

Peers, Prof. E. Allison, M.A. Camb. and Lond. Hon. Lectr.
Ramalhete, B., L. em L. Lisbon (from 1.10.39) Lectr.

Hispanic Studies: Spanish

Peers, E. Allison, M.A. Camb. and Lond. Gilmour Prof.
Lara, Maria V. de, Lic. en F. y L. Madrid (Hist.) Lectr.
Brown, R. F., M.A. Asst. Lectr.

History, Ancient

Ormerod, H. A., M.C., M.A. Ox., F.S.A. Rathbone Prof.

History, Eccl., v. Affild. Instns.

History, Mediæval

Coopland, G. W., B.Sc. Lond., M.A., Litt.D. Prof.

Hunt, R. W., M.A. Ox. (Palæog.) Lectr.
Myers, A. R., M.A. Manc. Asst. Lectr.

History, Modern

Veitch, G. S., M.A., Litt.D. A. Geddes & J. Rankin Prof.
Routledge, F. J., B.Litt. Ox., M A. Senr. Lectr.
Howden, Marjorie P., M.A. Lectr.
Bromley, J. S., B.A. Ox. Asst. Lectr.

Italian

Faithfull, R. G., B.A. Lectr.

Law, v. also Civic Design and Engin.

Blease, W. Lyon, LL.M. (Public Orator) Q. Vict. Prof.
Batt, F. R., LL.M. (Comml. L.) Prof.
Brown, H., M.A., LL.B. (Hist. of English L.) Lectr.
Geddes, W., M.A., LL.M. (Constnl. L. and Priv. Int. L.) Warr Mem. Lectr.
Turner, J., LL.M. (Solicitors Intermediate Course, etc.) Lecturer and Tutor.
Brown, A. W., LL.M. (Procedure, King's Bench Div.).
Ball, E. S., F.C.A. (Book-keeping and Trust Accounts).
Hamilton, A., LL.B. (Divorce L. and Practice).
Simey, T. S., M.A. (Local Govt. and Admin. L.).
Miller, A. B., B.A. (L. of Shipping, etc.).

Mathematics, Applied

Rosenhead, L., D.Sc. Leeds, Ph.D. Leeds and Camb. Prof.
Hargreaves, R., M.A. Camb. Reader.
Fletcher, A., M.A., Ph.D. Camb., F.R.A.S. Lectr.
Miller, J. C. P., M.A., Ph.D. Camb., F.R.A.S. Lectr.
Strachan, C., M.A. Aberd. and Camb., Ph.D. Camb. Lectr.
Doodson, A. T., D.Sc., F.R.S. (Analysis of Observations) Hon. Lectr.
Daymond, S. D., B.A. Ox., B.Sc. Lond. and Wales Asst. Lectr.

Mathematics, Pure

Whittaker, J. M., M.A. Camb., D.Sc. Edin. Prof.
Bradley, F. W., Ph.D. Camb., M.Sc. Lectr.
Walker, A. G., M.A. Ox., Ph.D. Edin., F.R.A.S. Asst. Lectr.

Medicine, v. *infra*

Naval Archit., v. Engin.

Oceanography

Proudman, J., M.A. Camb., D.Sc., F.R.S. Prof.
Daniel, R. J., D.Sc. Leverhulme Senr. Lectr.
Jenkins, J. T., D.Sc. Lond. and Wales, Ph.D. Kiel (Sea Fisheries) Hon. Lectr.
Bruce, J. L., M.Sc., Lect. and Naturalist - in - Charge at Marine Biol. Station, Port Erin.

Parasitology

Southwell, T., D.Sc., Ph.D., A.R.C.S. Lectr.

Philology, Comparative, v. German

Philosophy

Dorward, A. J., M.A. Edin. and Camb. Prof.
Turner, J. E., M.A., Ph.D. Reader.
Barnes, W. H. F., M.A. Ox. Asst. Lectr.

Physics

Chadwick, J., M.Sc. Manc., Ph.D. Camb., D.Sc. Reading, F.R.S. N.L. Lyon Jones Prof.
Pryce, M. H. L., M A. Camb. (Theoretical P.) Reader.

Lectrs. and Demrs.

Ablett, R., M.Sc., F.Inst.P.

Edwards, E., B.Sc. Wales, M.A. Tor. (also Educn.).
Roberts, R. W., D.Sc.
Richardson, H. O. W., B.Sc. Lond., Ph.D. Camb.
Kinsey, B. B., B.A., Ph.D. Camb. Leverhulme Lectr.

Physiology and Histology

Roaf, H. E., M.D. Tor., D.Sc., L.R.C.P., M.R.C.S. Holt Prof.
Brunton, C. E., M.A., Sc.D., M.D. Dub. (Physiol.) Senr. Lectr.

Lecturers

Wadsworth, T. W., M.D., D.P.H., F.R.C.P. (Appl. Physiol.).
Tozer, Frances M., B.Sc. Lond. (Histol. and Cytol.).
Tozer, A. H. D., M.A. (Exper. Psychol.).
Hancox, N. M., M.B., Ch.B. (Physiol.). Asst. Lectr. and Demr.

Demrs.

Hay, Jannett C., M.D. (Physiol.).
Henry, L., M.B., Ch.B. (Physiol.)
Griffin, S. G., M.B., Ch.B., M.R.C.S., L.R.C.P. (Histol.).
Macmillan, E. W., M.B., Ch.B. Edin. (Histol.).
Hall, A. S., B.Sc., M.B., Ch.B. Holt Fellow.

Psychology

Harding, D. W., M.A. Camb. Sr. Lectr.

Public Administration

Simey, T. S., M.A. Ox. (to 30.9.39) Leverhulme Sr. Lectr.

Russian Hist., Lang. and Lit.

Boswell, A. B., M.A. Bowes Prof.
Slepchenko, B. S. Hon. Recog. Teacher.

Social Science

Simey, T. S., M.A. Ox. (from 1.10.39) Charles Booth Prof.
Jones, D. Caradog, M.A. Camb. (Social Statistics) Reader and Leverhulme Sr. Lectr.
Black, Ellinor I., B.Sc. Lond. Lectr.
Thompson, G. G., M.A. Edin., B.A. Ox. Asst. Lectr.
Jones, R. H., B.Sc., M.A. Temp. Lectr.

Spl. Tutors

Keeling, Dorothy C., M.B.E., M.A.
MacEwen, Christine W., L.L.A.

Spanish, v. Hispanic Studies

Vet. Science

Share-Jones, J., M.D. (Vet.) Berne, D.V.Sc., M.Sc., F.R.C.V.S., Dir. of Vet. Studies Prof. of V. Anat.
Craig, J. F., M.A. Glas., F.R.C.V.S. (Care of Animals) W. Prescott Prof.

Lectrs.

Davies, G. O., M.V.Sc., M.R.C.V.S., D.V.H.
Elam, C. W., D.V.H., M.R.C.V.S.
Hughes, H. V., B.V.Sc.
Isherwood, R., M.R.C.V.S., Administrator, Vet. Hosp.
Mattinson, A.B., O.B.E., M.C., M.A., F.R.C.V.S., D.V.S.M. Vict.
Shuttleworth, A. C., B.V.Sc., Res. Surg. Vet. Hosp.
Ratter, A., M.R.C.V.S. Vet. Investigation Officer.
Dransfield, J. W. Temp. Asst. Lectr.

Welsh, v. Celtic

Zoology, v. also Entom., Ocean., Parasit.

Orton, J. H., D.Sc. Lond., F.L.S. Derby Prof.
Burfield, S. T., M.A. Camb., M.Sc., F.L.S. Senr. Lectr.

Lectrs. and Demrs.

Bisbee, Ruth C., M.Sc., F.L.S.
Fordham, Mahalah G. C., M.Sc. W. Aus.
Herdman, E. Catherine, M.Sc.
Carpenter, Kathleen E., B.Sc. Lond., M.Sc., Ph.D. Wales, Dip.Ed. Camb. Hon. Lectr.
Ellis, W. G., B.Sc. (Experimental Zool.) Lectr.

Engineering

Civil Engineering

Batson, R. G., A.K.C., M.Inst.C.E., M.I.Mech.E. Prof.
Hitchens, A. P., B.Eng. Lectr.
Daymond, J. R., M.Sc. Wales Lectr.
Bannister, J. L., B.Sc.Tech. Manc. Asst. Lectr.
Lowe, T. L., B.Sc. Wales Asst. Lectr.

Dock and Harbour Engineering

Wilton, T. R., M.A. Camb., M.Inst.C.E. Assoc. Prof.

Electrical Engineering

Marchant, E. W., D.Sc. Lond., P.P.I.E.E., F.C.G.I. Jardine Prof.
Teago, F. J., D.Sc. Durh., M.I.E.E. (Elect. Machinery) Rankin Prof.
Brookes, R. C., B.A. Camb. Lectr.
Rawcliffe, G. H., M.A. Ox. Lectr.
Butler, O. I., B.Sc. Wales, M.M.E.E. Asst. Lectr.
Alexander, W., B.Sc. Lond. Asst. Lectr.

Law, Engineering

Gordon, C. G. S., LL.B. Lectr.

Marine Engineering

Lectrs.: The Prof. of Mech. E., the Prof. of Nav. Arch.

Mechanical Engineering

Scholes, G. E., M.B.E., M.Sc.Manc., M.I.A.E., M.I.Mech.E. Harrison Prof.
Mawson, H., D.Sc. (Eng.) Lond., A.R.C.Sc. (Mech. Engin. and Hydraul. Mach.) Senr. Lectr.
Kearton, W. J., D.Eng., M.I.Mech.E. Senr. Lectr.
Clark, J. J., M.Eng., M.I.Mech.E. (Design & Drawing) Lectr.
Okill, J., M.Eng., M.I.A.E. Lectr.
Cole, E. B., M.Sc. Bris. Lectr.
Smith, G., B.Sc. Lectr.
Calvert, N. G., B.Eng. Asst. Lectr.
Peregrine, E. P., B Sc. Wales Asst. Lectr.

Metallurgy

Bannister, C. O., M.Eng., A.R S.M., F.I C., M.Inst.M.M. (also Lectr. in Dental M) Wortley Prof.
Kennett, S. J., B.Sc., Ph.D., A.R.S.M., D.I.C. Lectr.

Naval Architecture

Abell, T. B., O.B.E., M.Eng., R.C.N.C. (ret.), M.I.N.A. Alex. Elder Prof.
Wilson, J. C. M., M.Eng., R.N.C. Lectr.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthesia

Minnitt, R. J., M.D., D.A. Lectr.
Harbord, R. P., M.B., Ch.B., M.R.C.S., M.R.C.P. Demr.

Bacteriology

Wright, H. D., B.A. Tas., M.D., D.Sc. Edin., M.R.C.P. Prof.
Robinson, D. T., M.Sc. Manc., M.R.C.S., L.R.C.P., Dipl. Bact. Manc. Senr. Lectr.
Lectrs.
Ashcroft, L. S., M.B., Ch.B., D.P.H.
Vaughan, A. C. T., B.Sc., M.B., Ch.B.
Raven, Clara, B.A., M.S. Mich., M.D. Chic. Garrett Internat. Fellow.

Cytology, v. Physiol. and Histol.

Dermatology

Stopford-Taylor, R., D.S.O., M.B., Ch.B., F.R.C.S. Ed. Lectr.

Diseases of Children

Capon, N. B., M.D., F.R.C.P. Lectr.

Diseases, Infectious

Hodgson, A. E., M.D. Edin., D.P.H. Camb. Lectr.

Diseases, Mental [Lectr.

Reeve, E. F., M.B., B.S. Lond.

Diseases, Specific [Lectr.

Ross, A. O. F., M.D. Ed., D.P.H.

Forensic Medicine and Toxicology

Grace, W. H., B.Sc. Syd., M.D., D.P.H. Lond., M.R.C.P. Lectr.

..... Jr. Demr.

Hygiene

Frazer, W. M., M.D., M.Sc., D.P.H. Prof.

Lectrs. in Pub. Health Admn.

Stallybrass, C. O., M.D., B.S., D.P.H.

Glover, B. T. J., M.D., D.P.H. (and Vaccn.).

Crane, W., B.A., M.D., D.P.H. Dub. Hon. Lectr.

Laryngology

Forster, H. V., M.C., M.Sc., M.B., Ch.B., F.R.S.M. Lectr.

Materia Med., Pharmacy, Pharmacol. and Genl. Therap.

Dilling, W. J., M.B., Ch.B. Aberd. Prof.

Brookfield, R. W., Ph.D., M.D., M.R.C.P., D.P.H. (Therap.) Lectr.

Ellis, G. R., M.A., M.D., M.R.C.P. (Practical Therap.) Lectr.

Goodall, Ivy, M.Sc. Asst. Lectr.

Medicine [Prof. & Clin. Lectr.

Cohen, H., M.D., F.R.C.P.

Chamberlain, E. N., M.Sc., M.D., F.R.C.P. Lectr.

Kemp, R. P., M.D., M.R.C.P. Research Asst.

Davies, Sarah, M.Sc. Research Asst.

Coope, R., M.D., B.Sc., F.R.C.P. Museum Demr. & Clin. Lectr.

Demrs.

Baker-Bates, E. T., M.D., M.R.C.P.

Jones, E. Wyn, M.D., M.R.C.P., D.P.H.

Owen, D. U., M.D., M.R.C.P., D.T.M.

Clinical Lectrs.

Bligh, J. Murray, M.D., F.R.C.P.

Capon, N. B., M.D., F.R.C.P.

Johnson, W., M.D., F.R.C.P.

Jones, H. Wallace, M.Sc., M.D., D.Ch.O., F.R.C.P.

Pemberton, H. S., M.B., Ch.B., M.R.C.P.

Wadsworth, T. W., M.D., D.P.H., F.R.C.P.

Cunningham, L., M.A., M.B., B.Chir. Camb., M.R.C.P.

Obstetrics and Gynæcology

Robinson, A. L., M.D., B.S. Lond., F.R.C.S., F.C.O.G. Prof. & Clin. Lectr.

Gemmell, A. A., M.A., M.D. Camb., F.R.C.S.E., F.C.O.G. Lectr. & Clin. Lectr.

Herd, S. B., M.D., F.C.O.G. Asst. Lectr.

Demrs.

Malpas, P., M.B., Ch.M., F.R.C.S., F.C.O.G.

Datnow, M. M., M.D., F.C.O.G., F.R.C.S.E.

Jeffcoate, T. N. A., M.D., F.R.C.S.E., M.C.O.G. Hon. Sub-Curator and Tutor.

Hamilton, C. J. K., M.A., M.B., B.Ch. Camb., F.R.C.S.E. Resident Asst. and Tutor.

Wright, R. B., M.B., Ch.B. Boyce Fellow.

Clinical Lectrs.

Burns, J. W., B.A., M.D. Dub., F.R.C.S.E., F.C.O.G.

Gemmell, A. A., M.A., M.D. Camb., F.R.C.S.E., F.C.O.G.
Nicholson, Ruth, M.B., M.S., B.Hy., D.P.H. Durh., F.C.O.G.
Walsh, C. H., M.B., Ch.B., D.P.H., M.C.O.G.
Wilson, J. St. G., M.C., Ch.M., F.R.C.S., F.C.O.G.

Ophthalmology

Chavasse, F. B., M.C., M.A., M.D., D.O.M.S. Ox. Lectr.

Pædiatrics (Clinical)

Bligh, J. Murray, M.D., F.R.C.P.
Capon, N. B., M.D., F.R.C.P.
Johnson, W., M.D. Lond., F.R.C.P.
McMurray, T. P., M.Ch., F.R.C.S. Ed.
Thompson, W. A., M.Ch. Belf., F.R.C.S. Ed.

Pathology

Davie, T. B., B.A. Cape, M.D., Ch.B., M.R.C.P. Holt Prof.
Harrison, C. V., B.Sc., M.B., Ch.B. Wales, M.B., B.S. Lond. Senr. Lectr.
Evans, W. Howel, B.Sc., M.D. Hon. Lectr.
Watson-Jones, R., B.Sc., M.B., Ch.B., M.Ch.Orth., F.R.C.S. Hon. Lectr.
Cook, L. G., M.B., Ch.B., D.P.H. N.Z. Lectr.
Williams, G. E. O., M.B., Ch.B. Lectr.
Owen, G. D., M.B., Ch.B. Holt Fellow.

Pharmacology and Genl. Therap., v. Mat. Med., etc.

Public Health Chemistry, v. also Hyg.

Roberts, W. H., M.Sc., F.I.C. Assoc. Prof.
Jones, E. Gabriel, M.Sc., F.I.C. Lectr.
Smith, F. J., B.Sc., F.I.C. Lectr.

Radiology

Roberts, R. E., B.Sc., M.D., D.M.R.E., D.P.H. Lectr.

Asst. Lectrs.

Mather, J. H., B.Sc., M.B., Ch.B., D.M.R.E.
Rubin, E. L., M.D., M.R.C.S., L.R.C.P., D.M.R.E.
Walker, Nora M., M.B., Ch.B. Vict., D.M.R.E.
Whitaker, P. H., M.B., Ch.B., M.R.C.S., L.R.C.P., D.M.R.E.

Surgery

Kelly, R. E., C.B., M.D., B.Sc., F.R.C.S. Prof. and Clin. Lectr.
Kennon, R., M.C., M.D., F.R.C.S. (S. and Oper. S.) Lectr., also for Dental Students and Clin. Lectr.
Wells, C. A., M.B., Ch.B., F.R.C.S. Jnr. Lectr.
Watson-Jones, R., B.Sc., M.B., Ch.B., M.Ch.Orth., F.R.C.S. Jnr. Lectr. and Lectr. Clin. Orthop.
Reid, H., M.B., Ch.B., F.R.C.S., F.R.S.M. Museum Demr. and Clin. Lectr. Dental Students.
Ross, J. C., Ch.M., F.R.C.S. (Oper. S.) Hon. Demr.
Edwards, F. R., Ch.M., F.R.C.S., L.R.C.P. Research Assistant.
Darbishire, S. B., B.A., M.B., Ch.B. Camb., M.R.C.S., L.R.C.P. Thelwall Thomas Fellow.

Other Clinical Lectrs.

Simpson, G. C. E., O.B.E., B.A., M.B., B.Ch. Camb., B.Sc., F.R.C.S.
McMurray, T. P., M.Ch. Belf., F.R.C.S.E. (Orthop.) (Director of Orthop.).
Unsworth, S. V., M.B., Ch.B., F.R.C.S.

McFarland, B. L., M.D., M.Ch. Orth., F.R.C.S.E. (Orthop.)
Rawlinson, J. H., M.B., Ch.B., F.R.C.S.E.
Morrison, J. T., O.B.E., M.B., Ch.B., F.R.C.S.
Williams, O. Herbert, M.B., Ch.B. Edin., F.R.C.S., D.P.H. Ox.
Heaney, F. J. Strong, M A., M.D., F.R.C.S.I.
Wolfenden, H. F., M.D., F.R.C.S.

Tropical Diseases of Africa
Davey, T. H., M.D. Belf., D.T.M. Prof.

Tropical Hygiene
Blacklock, D. B., M.D., D.P.H., D.T.M. Prof.

Tropical Medicine
Yorke, W., M.D., F.R.C.P., F.R.S. A. Jones Prof.

Vaccination, v. Hygiene

Dentistry

Stones, Prof. H. H., Director of Dental Education (*v.* also D. Surg.).

D. Anæsthesia
Smith, G. F. R., T.D., M.B., B.S. Lond., M.D., D.A. Lectr.
Knowles, J. G., B.D.S. Demr.

D. Anat., Physiol. and Histol.
Guyler, T. W. C., B.D.S. Demr.

D. Prosthetics and Mechanics
Watt, G. V., L.D.S. Supervisor

D. Metallurgy, v. Metall. *supra*

D. Surgery
Stones, H. H., M.D., M.D.S. Manc., L.D.S. Cohen Prof.
Lovel, R. W., H.D.D., L.D.S. Lond., D.D.S. Chic. (Clin. and Op. D. Surg.) Demr.

D. Surgery, Clin.
6 Lectrs.; 1 Tutor.

D. Surgery, Operative
Collinge, J. S. H., L.D.S. Lectr.
Ball, G. S., L.D.S. Demr.

Orthodontia
Watkin, H. G., L.D.S. Lectr.

Radiology
Roberts, J. G., L.D.S. Hon. Demr.

Curator of Museum
Woods, E. C., L.D.S.

Physical Education

Dunn, R. E., B.Sc. Lond. Lectr.

Shute Lecturer (Art of the Theatre)
1938–39—Gilbert Murray, M.A., LL.D., D.Litt., F.B.A.

Frazer Lecturer (Social Anthropology — Oxford, Cambridge, Glasgow, Liverpool, in rotation).
1938–39—At Cambridge.

William Mitchell Banks Memorial Lecturer (every 2nd yr.)

Lady Jones Lecturer (Orthopædic Surg.—every 2nd yr.)
1939—Prof. H. Waldenström (Stockholm)

James W. Alsop Lecturer (Music)
1938–39 — Albert Coates, Hon. F.R.C.M., D.Mus.

Sydney Jones Lecturer (Art)
1938–39—C. Marriott, A.R.I.B.A. (Hon.).

University Extension

Officer for Extra-mural Studies
W. A. McPhee, M.A., B.Com. Edin., Ph.D. Lond.

Joint Secs. to the Jt. Committee on Tutorial Classes
F. Garstang.
A. McPhee.

ASSOCIATED AND AFFILIATED INSTITUTIONS

INSTITUTE OF ARCHÆOLOGY, Abercromby Square, Liverpool. Associated Teachers additional to the staff of the Faculty—*Assyriology*, ... ; *Numismatics*, Milne, J. G., M.A., D.Litt.

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE. Observatory est. 1845, Tidal Institute, 1919. Administered by a Joint Committee representing the Univ. Council and the Mersey Docks and Harbour Board. Director, Prof. J. Proudman, M.A., D.Sc., F.R.S. Assoc. Dir., A. T. Doodson, D.Sc., F.R.S. *See also* App. III. A. IV.

ST. AIDAN'S COLLEGE, Birkenhead. Principal, Rev. F. B. Heiser, M.A. Ox. Certain courses (not given in the Univ.) are recognized as Univ. courses in part for the ordinary degree of B.A. Recognized Teacher in *Eccl. Hist.*, Steinly, Rev. E., M.A.

EDGE HILL TRAINING COLLEGE, Ormskirk. Principal, Miss E. M. Smith, M.A. Recognized Teacher in *Maths.*, the Principal.

MOUNT PLEASANT TRAINING COLLEGE. Principal, Miss C. Holcroft, B.A. Recognized Teacher in *Latin*, Sampson, Miss M., M.A.

DIOCESAN TRAINING COLLEGE, Chester. Principal, Rev. H. Stanley Astbury, M.C., M.A. Camb. Recognized Teachers : Pickup, E., B.A. (in *French*) ; Bradbury, J. L., M.A. (in *Engl.*) ; Stephens, J. S., B.A. (in *Geog.*) ; Vincent, C. J., M.A. Glas., B.A. Lond. (in *Hist.*) ; Hooper, F. W., B.Sc., A.I.C. (in *Chem. and Physics*) ; Lewis, W. E., M.A. (in *Maths.*).

THE HARRIS INSTITUTE, Preston. First year of Degree Course (Engineering).

SCHOOL OF TROPICAL MEDICINE, Pembroke Place, Liverpool. Ward for Tropical Diseases at Royal Infirmary, Liverpool. Research laboratory at Sierra Leone. For training in the conduct of original research and organization of prophylactic measures. Has sent numerous expeditions to tropical countries. Publishes Memoirs and *Annals*. For staff, v. *supra*—Trop. Med., Trop. San., Parasit., Entom., Hygiene. D.T.M. course, 3 mos. D.T.H. course, 3 mos. after taking D.T.M.

PATHOLOGICAL LABORATORY, County Mental Hospital, Rainhill.

FACULTY OF MEDICINE : 20 general and special hospitals are affiliated for the purpose of clinical or practical work required for degrees and diplomas in the Faculty of Medicine.

GENERAL INFORMATION

University College, Liverpool, founded by Royal Charter 1881, was admitted into the Victoria University, Manchester, in 1884. In 1903 the University of Liverpool was established by Royal Charter and the College was absorbed in it.

LIBRARY, MUSEUMS, ETC. The library of the Univ. contains about 200,000 vols., including a valuable collection of academies and periodicals and great series, such as Migne, Pertz, Muratori, Acta Sanctorum, and the Corpus Vindobonense. Among rarer possessions are the Rylands collection of early works on Geography and Astronomy, a collection of works by and about William Blake, sets of the Roxburghe, Bannatyne and Maitland Clubs, the William Noble Library, the Rendall collection of editions of Marcus Aurelius and the Scott Macfie collection of Gypsy Lore books, a unique number of

Aldines, and over 175 *incunabula*, the earliest specimen of printing being a leaf of the 42-line Bible, *circa* 1454, and the final sheets of the Constitutiones of Clement V. printed at Mainz in 1460. Special bibliographies have been issued. In addition there are twenty-three Class Libraries in the Faculty of Arts and External Departmental Libraries for the Science Dept.

The following are the principal MUSEUMS AND LABORATORIES: Anat., Archæol. (including a unique Hittite collection), Archit., Bact., Biochem., Bot., Chem., Physical and Electro-Chem., Elect. Engin., Embryol. and Genetics, Engin. (including facilities for aerial motor and propeller testing and other wind experiments), Geol., Hygiene, Laryngology, Materia Medica, Med., Trop. Med. (including museum, animal houses, and specially warmed glass insectarium, and research labs. at Liverpool and Sierra Leone), Obst. and Gynæc., Oceanog., Ophth., Path., Physics, Physiol. and Histol., Surg. Path., Tidal Research, Toxicology, Vet. Anat. and Path., Zool. The Port Erin (Isle of Man) Marine Biol. Lab. has been transferred to the Univ. by an Act of Tynwald. *See also* App. III. A. III. HOSPLS. available for Clinics, 4 general and 5 special, containing about 1500 beds. The trade of the port ensures frequent cases of infection. Special wards for Trop. Diseases. Expeditions to Tropical countries organized for investigation or advice. Suitably qualified persons may enter the Labs. for research at prescribed fees.

FACULTIES. (1) Arts (with Schools of Archit., Archæol., Social Sciences and Administration (including Economics, Commerce, Geography, Social Science and Publ. Administn.), Local History and Records, Russian Studies; Departments of Civic Design and Educn.); (2) Science (with Liverpool Observatory and Tidal Institute and Port Erin Biological Station); (3) Medicine (with Schools of Dent. Surg., Hygiene, Trop. Med., Vet. Sc.); (4) Law; (5) Engineering. *Deans*: (1) Mr. F. J. Routledge (Mod. Hist.), (2) Mr. S. T. Burfield (Zool.), (3) Prof. W. H. Wood (Anat.), (4) Prof. F. R. Batt (Commercial Law), (5) Prof. R. G. Batson (Civil Engin.). Director of Dental Educn., Prof. H. H. Stones (Dent. Surg.); of Veterinary Studies, Prof. J. Share-Jones (Vet. Anat.).

ADMISSION, *See* Appendix I.

DEGREE COURSES. B.A., B.Com., B.Sc., LL.B., 3 yrs.; B.Eng., 3 or 4 yrs. (plus 2 yrs.' apprenticeship); B.Arch., B.V.Sc., 5 yrs.; M.B., Ch.B., not less than 6 yrs. subsequent to admission to the Fac. of Med.; B.D.S. not less than 5 yrs. subsequent to admission to the Fac. of Med.

The degree of B.A. is conferred either as a degree in General Studies or as a degree in Special Studies in one of the Schools of the Faculty. Honours may be awarded in both General and Special Studies.

The B.Com. courses include (1) General Business; (2) Banking, Insurance, Accounting; (3) Transport, Railways, Shipping; (4) Consular Service.

The LL.B. courses prepare for the Bar and solicitors' examns. as well as for the Degree.

The B.V.Sc. may be taken concurrently with the M.R.C.V.S.

HIGHER DEGREES. Ph.D., v. p. 13. Faculty of Arts: Litt.D.—On published contributions to learning, after report, upon Masters of Arts after 7 yrs. from date of admission to the degree of B.A. M.A.—2 yrs.' directed study after Hons. B.A. Dissertation with or without examn., or report on 2 yrs.' research work. 2 yrs.' directed study after Ord. B.A., or B.Arch. (Ord. or Hons.); dissertation with or without examn. Other graduates or candidates who have passed a final degree examn. eligible under certain conditions after 2 yrs.' higher study. Other approved candidates, 3 sessions. M.Arch.—On architectural work of a distinguished character, after report; 10 yrs. from

taking B.Arch. M.Com.—2 yrs.' directed study after B.Com. or B.Com.Sc., by examn. or by presenting dissertation. Other graduates eligible under certain conditions after 2 yrs.' higher study. Faculty of Law: LL.D.—On published contributions to learning, after report, after 5 yrs. from taking LL.M. LL.M.—2 yrs.' directed study after Hons. LL.B. Holders of ord. LL.B. take examn. or present a dissertation in addition. Other grads. or candidates who have passed a final degree examn. eligible under certain conditions after 2 yrs.' higher study. Other approved candidates, 3 yrs. Faculty of Science: D.Sc.—On published contributions to Science, after report; candidates to be graduates of Liverpool of not less than 6 yrs.' standing. M.Sc.—Hons. B.Sc., 1 session higher study or research; Ord. B.Sc., 1 yr.'s higher study and passing a prescribed examn. Subsequently, 3 terms' higher study or research. Persons who pass the Final B.Sc. examn. at the end of the second year, 1 session after passing a prescribed examn., and subsequently 6 terms' higher study or research. Other grads. or candidates who have passed a Final degree examn., 2 sessions. Other approved candidates, 3 sessions. Faculty of Medicine: M.D.—(*a*) 2 yrs. after M.B., Ch.B., thesis with, if candidate desires, copies of published original papers upon Med. Sci. Oral examn. on subject of thesis. (*b*) 5 yrs. after M.B., Ch.B., examn. in Med. and in a selected branch of Med. Ch.M.—2 sessions after M.B., Ch.B., by examn. M.Ch.Orth.—15 months after M.B., Ch.B. or equivalent, by examn. The M.Ch.Orth. is open to grads., other than Med., of this or approved Univs. who are F.R.C.S. (Eng., Ed., or I.) or Fellows of the American Coll. of Surg. Master of Dental Surgery (M.D.S.) 2 yrs.' standing from taking B.D.S., 3 yrs.' standing (with 1 yr.'s higher study or research) from equivalent to B.D.S. Thesis and special examn. or wholly by examn. All types of candidates must also attend course of study or Hospital Practice as prescribed by regulations. D.V.Sc.—On published contributions to Vet. Sci., after report, after 3 yrs. from taking M.V.Sc. M.V.Sc.—2 sessions of higher study after B.V.Sc. (or equivalent), by thesis and possibly by examn. Faculty of Engineering: D.Eng.—On published contributions to Engin., after report, on Masters of Engineering or Doctors of Philosophy (Fac. of Engin.), after 5 yrs. from taking such degree. M.Eng.—2 yrs.' practice after Hons. B.Eng. 2 yrs.' practice and either (*a*) one of such years in higher study and report, or (*b*) on presenting dissertation, after ordinary B.Eng. Other grads., 2 yrs.' higher study and thesis. Other approved candidates 3 yrs. with examn. and thesis.

DIPLOMAS. Archæol., 1 yr. after Certif. in Archæol.; Archit., 5 yrs.; Civic Design, 1 yr. after Certif. in Civic Design or for graduates and others suitably qualified; Commerce, 3 yrs.; Educn., 1 yr. for graduates; Public Admin., 3 yrs., 2 yrs. or 1 yr. for suitably qualified candidates; Engin., 2 yrs.' practice of Engin. after final examn. for Certif. (including 1 yr.'s approved study or dissertation except for candidates who passed in 8 papers in final Certif. examn.); L.D.S., not less than 4 yrs. subsequent to registration as dental student. Post-graduate medical and veterinary diplomas: D.P.H., 9 mos. or 1 yr.; D.T.M. (Trop. Med.), 3 mos.; D.T.H. (Trop. Hyg.), 3 mos. after D.T.M.; D.M.R.E. (Med. Radiol. and Electrol.), 1 yr.; D.V.H. (Vet. Hyg.), 6 mos.

CERTIFICATES. Archæol., 2 yrs.; separate Arts subjects, 2 yrs.; Architectural Design, 1 yr.; Civic Design, 2 terms for 2 yrs.; Social Science, 1 or 2 yrs.; Educn., 1 yr. for graduates and others suitably qualified; Engin., 4 yrs. (3 yrs. for candidates who have taken appd. techn. course); University Extension courses, 1 yr.

FEES. Guild of Undergrads., £3 : 3s. p.a. DEGREE COURSES: B.A. or

B.Com. (3 yrs.), £90 (B.A. Special Studies, 4th yr. £10; B.Com. Hons., 4th yr. £10); M.A. or M.Com. (sessional), £5; B.Arch. (5 yrs.), £150; B.Sc. (3 yrs.), £138 (average) (B.Sc. Hons., 4th yr. £30 or £40); M.Sc. (sessional), Maths., £5; other subjs., £10; M.B., Ch.B. (6 yrs.), £260; M.D. (sessional), £10; Ch.M. (2 yrs.), £20; M.Ch.Orth. (15 mos.), £41; B.D.S. (6 yrs.), £309; M.D.S. (2 yrs.), £22; B.V.Sc. (5 yrs.), £175; M.V.Sc., 1st yr., £20, 2nd yr., £10; LL.B. (3 yrs.), £48 : 12s.; LL.M. (sessional), £5; B.Eng. (3 or 4 yrs.), £144-£192; M.Eng. (Research), £20; Ph.D. (9 terms or 2 calendar yrs.), £40 : 10s. or £27. Apparatus fee per session for candidates taking Research and Ph.D. (Sc., Med., Eng., except Maths.), £10. DIPLOMA COURSES: Archit. (5 yrs.), £150; Civ. Des. (1 yr.), £22 : 10s.; Educ. (1 yr.), £35; Com. (3 yrs.), £90; Archæol. (1 yr.), £10; Public Admin. (3 yrs.), £30; D.P.H. (1 yr.), £48; D.T.M. (3 mos.), £21; D.T.H. (3 mos.), £12 : 16s.; D.M.R.E. (3 terms), £31 : 10s.; Course in Operative Surg. for F.R.C.S., £5 : 12s.; L.D.S. Liv., £253; M.R.C.V.S. (5 yrs.), £150; D.V.H. (6 mos.), £21; Eng., 1 yr. after taking Certif. in Engin., £48 per session. CERTIFICATE COURSES: Archit. Des. (1 yr.), £35; Civ. Des. (2 terms for two sessions), £10; Soc. Science (2 yrs.), £28; Archæol. (2 yrs.), £30; Educ. (1 yr.), £35; Engin., 3 or 4 yrs. at £48 per session. Separate Arts Subjects: as for separate courses.

EXAMN. FEES. M.B. and Ch.B., £24 : 3s.; B.D.S., £25 : 4s.; B.V.Sc., £19; B.Arch., £5 : 10 : 6; B.Eng., £6; other Bachelor degrees, £4 or £6; Master's degree (examn. or on application), Ch.M., M.Ch.Orth., £10 : 10s.; M.D.S., £5 : 5s.; M.V.Sc., £5; others, £3; M.Sc., qual. examn., £2; Doctor's (examn. or on application), Ph.D., £8; M.D., £10 : 10s.; others, £10. Diploma examns., L.D.S., £25 : 4s.; Comm., £4; Archæol., £3; Public Admin., £1; Civic Design, £1 : 10 : 6; Architect., £5 : 10 : 6; Educn., £2; Eng., £3; D.P.H., £10 : 10s.; others, 5 gs. Certif. Examns., Eng., £6; others, £2. Degree Admission Fees, £6 for first degree, subsequent degrees, £5 (except M.B., Ch.B., M.D., Ch.M., M.Ch.Orth. and B.D.S., when admission fee is £6 : 6s. for first degree, £5 : 5s. for subsequent degrees); Dipl. Eng., £3; D.P.H., D.T.M., D.T.H., D.M.R.E., L.D.S., £2 : 2s.; Certif. Eng., £2; others, £1.

POST-GRADUATE SCHOLARSHIPS, ETC. A large number of valuable Fellowships and Scholarships are offered annually in all faculties. For Garrett International and Johnston Fellowships for Research and Ridgway Research Scholarship, v. App. II. 16, 18.

RESIDENCE, ETC. A Hall of Residence for 108 men (fees, £70); one for about 130 women (fees from £65 to £72). Students' Union Club House.

APPOINTMENTS BUREAU. Secretary, S. W. C. Phillips, B.A. Secy. for Women's Appointments, Miss E. A. Buller, B.A., University Hall, Holly Road, Fairfield, Liverpool 7.

ASSOCIATION OF GRADUATES. Besides "Convocation," there is a Liverpool University Society, with mainly social functions.

A UNIVERSITY EXTENSION BOARD and a University Joint Committee on Tutorial Classes are responsible for extra-mural work. There are travelling libraries for local centres.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Diary* (Oct.), free to members of the Univ.; *Prospectuses of Faculties and Schools* (July), free; *Students' Handbook* (Oct.), free; Students' Magazine, *The Sphinx*, 6d. (4 numbers per session); *Report on Research and other Original Work* (Nov.), free; *Inaugural Lectures*. Issued in 1920, *inter alia*, School of Tropical Medicine Historical Record, 1898–1920, 10s. 6d.; *A Brief Record of Work and Progress* (1882–1907; 1903–28).

THE YEAR 1937–38

BENEFACTIONS. Trustees of late Mr. A. B. Earle, £10,000; Mr. T. Harrison Hughes, £7500 for sites and buildings; British Insulated Cables, Ltd., approx. £3500 spread over 7 yrs.; Mr. Francis Neilson, £1500 to Institute of Archæology towards completing programme of exploration in Near East; executors of late Mr. W. Harding, £1000 for sites and buildings; Mr. Walter Hughes, £1000 for scholp. in memory of son, William John Hughes; trustees of late Lord Leverhulme, (i.) £500 for special lectureship in Physics, 1937–38; (ii.) £500 p.a. for 3 yrs. for Foundation Lectureship in Physics. Racecourse Totalisator Charity Trust, £500 for research in Veterinary Pathology; Sir Robert Rankin, M.P., £500; Leverhulme Charities Trust, £203 for Lever Research Studentship; Contributors University Gift Fund, £450; Instituto para a Alta Cultura: Annual sum, approximately £272, for Lectureship in Portuguese Language and Literature.

NEW BUILDINGS. Harold Cohen Library and Walter Harding Gymnasium completed. Buildings for depts. of Histopathology, Paradontal and Radiography in course of erection.

NEW POSTS. Lecturer Instructor in Physical Training; Lectureship in Portuguese Lang. and Lit., Senior Lectureship in Psychology, Lectureship in Oceanography, Readership in Social Statistics, Readership in Theoretical Physics.

DEVELOPMENTS. Institution of medical examination for first yr. students. Institution of postgraduate course in Anæsthetics.

CHANGES IN REGULATIONS. New Ordinances and Regulations for B.D.S. and L.D.S. D.P.H. Regulations amended and courses reorganized to meet new requirements of G.M.C. Institution of a Class III for degree of B.A. with Honours in Special Studies.

EXTRA-MURAL WORK. Extension lectures were given to general public, to Teachers, Technical Colleges and Secondary Schools, in area from Barrow in the north to Crewe in the south, and from Wigan to coast. The Univ. Extension Board arranged 52 lectures and four courses of 20 lectures, at 28 centres, 64 Tutorial Classes and one One-year class in various districts throughout the region served by Univ. There were 1054 students on the rolls. Series of popular afternoon and evening lectures at Univ.

VISITORS TO THE UNIVERSITY. Prof. H. Balfour, "'Spinners' and 'Weavers' in Anthropological Research"; Dr. Ruby E. Bell, "Maternity and Child Welfare"; Dr. J. P. Clarke, "Tuberculosis"; Prof. Gustave Cohen, "Une poétesse française en Angleterre au XIIe siècle: Marie de France"; Dr. A. Dingwall Fordyce, "Mental Welfare"; Prof. Pierre Janelle: (i.) "Un tableau de l'Angleterre en 1555"; (ii.) "An *Institutio principis* for the use of Philip of Spain, King of England"; the Rev. K. E. Kirk (Bishop of Oxford), "The Philosophy of Prayer"; Mr. F. Lambert, "The Development of Contemporary Painting"; Dr. Cecil Roth, "The Jew in Europe"; Sir Josiah Stamp, "The Mobilisation of Knowledge"; Sir Donald Tovey, "Musical Artforms as means of expression"; Prof. Dr. P. E. Verkade, "The Rôle of dicarboxylic acids in Metabolism"; Sir David Wilkie, "Chronic Duodenal Ileus"; Prof. J. Dover Wilson, "Shakespearian Comedy."

VISITORS TO OTHER UNIVERSITIES, ETC. Prof. D. B. Blacklock (Tropical Hygiene), visit to British West African Colonies to discuss co-ordination of research work there and position of laboratory of School of Tropical Medicine at Sierra Leone. Prof. A. M. Blackman (Egyptology), two lectures at Swedish-

British Society at Stockholm and Malmo. Prof. H. H. Read (Geology), lectures at Indian School of Mines, Dhanbad, and visits to most Indian Universities. Prof. J. McLean Thompson (Botany), lectures at Iowa.

RETIREMENTS. Prof. E. T. Campagnac (Educ.); Miss F. A. Collie (Educ.); Mr. F. C. Guthrie (Analytical Chem.); Prof. W. S. Patton (Entomol.); W. W. White (Handwork).

DEATHS. Dr. A. D. Bigland (Clinical Medicine); Dr. P. Frazer (Physiol.); Dr. T. W. F. Gann (Central American Antiquities); Dr. J. E. W. MacFall (Forensic Med.).

RESIGNATIONS. Dr. F. X. Aylward (Biochem.); Dr. T. G. Green (Industrial Chem.), on appt. to post in industry; Miss C. B. Hendry (Bact.), on taking up research work; Dr. T. F. Hewer (Path.), on appt. Chair of Path., Univ. Bristol; H. R. Hulme (Appl. Maths.), on appt. as Chief Assistant to Astronomer at Royal Observatory, Greenwich; S. A. Kelly (Civic Eng. and Hyg.), on reverting to private practice; Miss H. S. Kermode (Educ.); Dr. N. F. Kirkman (Physiol.); Dr. G. A. C. Lynch (Path.), on appt. as Pathologist and Bacteriologist to Burnley County Borough; Dr. A. J. McCall (Path.), on appt. Assist. Pathologist and Bacteriologist to Staffordshire County Council; G. D. Painter (Latin), on appt. at British Museum; W. Rotheram (Anæsthetics), on taking up final course for Med. degree; Dr. E. J. Williams (Physics), on appt. to Chair of Physics, Univ. Coll. of Wales, Aberystwyth; Dr. Jean Wright (French).

HONORARY DEGREES. *M.A.*—Alfred Lucas, John Henry Smith. *M.Sc.*—Harold Dryer Warburg. *LL.M.*—William Henry Tyrer. *M.Eng.*—Ernest Morgan.

STUDENTS. Full-time: 2054, including 221 graduates. Part-time: 480, including 307 graduates.

DEGREES. B.A. Hons. Spec. Studies, 40; B.A. Gen. Studies 53; A.B. Hons. Gen. Studies, 4; M.A., 14; Litt.D., 1; Ph.D. (Arts), 6; B.Arch. Ord., 6; B.Arch. Hons., 10; B.Com. Ord., 5; B.Com. Hons., 1; LL.B. Ord., 9; LL.B. Hons., 10; LL.M., 9; B.Sc. Ord., 30; B.Sc. Hons., 44; M.Sc., 11; D.Sc., 2; Ph.D. (Sci.), 16; B.Eng. Ord., 16; B.Eng. Hons., 20; M.Eng., 19; Ph.D. (Engin.), 4; M.B., Ch.B. Ord., 73; M.B., Ch.B. Hons., 2; M.D., 8; M.Ch.Orth., 8; B.D.S. Ord., 8; B.V.Sc., 5; M.V.Sc., 1; D.V.Sc., 1.

UNIVERSITY OF LONDON

Founded 1836

The Senate House, London, W.C.1.
Telegraphic address: University, London.
Telephone: Museum 8000.

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—The Rt. Hon. the EARL OF ATHLONE, K.G., P.C., G.C.B., G.C.M.G., G.C.V.O., D.S.O., LL.D., D.C.L., F.R.S.

VICE-CHANCELLOR—Sir ROBERT H. PICKARD, D.Sc., Ph.D., F.R.S. (to 30.9.39).

CHAIRMAN OF CONVOCATION—S. L. LONEY, M.A. Camb., B.A.

CHAIRMAN OF THE COURT—The Rt. Hon. LORD MACMILLAN, G.C.V.O., M.A., LL.D.

PRINCIPAL—H. L. EASON, C.B., C.M.G., M.D., M.S., F.R.C.S.

CLERK OF THE COURT—H. CLAUGHTON, C.B.E., B.A. Ox.

SECRETARY TO THE SENATE—MAURICE WEBB, C.I.E., M.A. Ox.

ACADEMIC REGISTRAR—S. J. WORSLEY, D.S.O., M.C., B.A.

EXTERNAL AND UNIVERSITY EXTENSION REGISTRAR—ARTHUR CLOW FORD, M.B.E., B.A.

SECRETARY OF THE MATRICULATION AND SCHOOL EXAMINATIONS COUNCIL—S. H. SHURROCK, M.A. Ox.

SUPERINTENDENT OF EXAMINATIONS—R. B. P. WALLACE, B.A., LL.B. Camb.

GOLDSMITHS' LIBRARIAN—R. A. RYE.

MAINTENANCE OFFICER AND ASSISTANT CLERK OF THE COURT—M. R. BONAVIA, M.A. Camb.

REPRESENTATIVE IN PARLIAMENT—See p. 18.

The several Incorporated Institutions, Departments, and Schools of the University, together with other Institutions having Recognized Teachers, are referred to on pp. 136-228 below.

University teaching is organized under 3 categories: (1) conducted by the Univ. itself; (2) conducted by the several "Schools of the Univ."; (3) conducted at the other Institutions at which there are "recognized Teachers of the Univ." For explanation of these terms, see below.

GENERAL INFORMATION

The University authorities desire that it should be clearly understood that they can accept no responsibility for any information concerning examns. or procedure except such as is contained in their own official Regns. These can always be obtained on application at the Univ. offices.

The Univ. was constituted by Royal Charter in 1836 as a body empowered to grant degrees to students of approved institutions after examination, and, until 1900, its work was confined to the examination of students. The system whereby entrance to its examns. was restricted to students of certain affiliated Colleges was abolished, except for examns. in Medicine, in 1858. In 1878 its degrees were thrown open to women, London being the first of the Univs. of Great Britain to adopt this policy.

In 1900 the Univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in Higher Education within a radius of 30 miles. The Senate was empowered to admit as *Schools of the University* institutions situated within the administrative county of London and not carried on for the private gain or profit of the owners which provide education of Univ. standard, and required to obtain reports at prescribed intervals on the efficiency of such schools. A special form of recognition could be given to an institution within the same area founded for research or the cultivation of any special branch of science or learning, and the Lister Institute of Preventive Medicine, the Maudsley Hospital, the Bethlem Royal Hospital, the School of Pharmacy, and the School of Oriental Studies have been admitted in this category.

The two original Colleges of the Univ. have been incorporated in it, the University Coll. in 1905 and King's Coll. in 1908, the Senate taking over the responsibility for their administration.

Further changes in the constitution of the Univ. were made by the Statutes under the University of London Act of 1926. These Statutes came into force in March 1929. The most important change was the creation of a new body known as the Court, which is responsible for the finances of the Univ.

COURT. Under the Statutes, the Court has the custody, control and disposition of all the property, funds and investments of the Univ. and controls its finances. One of its most important duties is to distribute among the Schools the grants received for the purpose from the Government, the London County Council and other bodies. Prior to the reconstitution the Government grant had been allocated to Schools by the University Grants Committee.

The Court is also responsible for the development of the Bloomsbury site and the Buildings.

SENATE. Under the Statutes the Senate is the supreme governing and executive body of the Univ. in all academic matters. It has power to recognize as Teachers of the Univ. any members of the teaching staff of public educational institutions, whether Schools of the Univ. or not. Matriculated students of Schools of the Univ. or studying under such *Recognized Teachers* are eligible under certain conditions for registration as *Internal Students*, and are allowed, after pursuing Approved Courses of Study, to enter for the "Internal" examns. of the Univ. *External Students* may pursue their studies where and how they please, and are admitted, without any conditions as to attendance at Approved Courses but after a specified period of Registration, to examns. for degrees in all subjects except Medicine, Pharmacy, Mining, Engineering, and Architecture. The examns. for Internal and External students are in some cases separate, in others identical.

LIBRARIES. The libraries belonging to the Univ. of London contain in the aggregate *c.* 778,000 vols. and pamphlets distributed in three chief centres, as follows: (1) *The University Library* (*c.* 310,000 vols. and pamphlets), which provides a free lending library for students and well-equipped research libraries for postgraduate students, incl. the Goldsmiths' Library of Econ. Literature, foremost, on the historical side, among the

econ. libraries of the country (*c.* 60,000 vols. and pamphlets). (2) *Univ. Coll.*, Gower Street (*c.* 388,000 vols. and pamphlets), incl. the General Library, a series of separate "seminar" libraries (known as the Arts Libraries), the Science Library, the Med. Sciences Library, and the Law Library. (3) *King's Coll.*, Strand (*c.* 80,000 vols. and pamphlets), incl. a general library and several special collections. The libraries of the Institute of Historical Research, the Courtauld Institute, the Francis Galton Laboratory, the Commerce Degree Bureau, and a small students' library at Goldsmiths' Coll., New Cross, are also the property of the Univ.

There are also important specialized and general libraries belonging to the Schools and Institns. of the Univ., incl. those of the Med. Schools, the London School of Hygiene and Trop. Medicine, the Royal Coll. of Music, the School of Oriental Studies, and the London School of Economics.

Full particulars of these libraries above are included in R. A. Rye: *Students' Guide to the Libraries of London* (v. *infra*—Publications).

MUSEUMS. Among the many Museums which, in addition to those belonging to the Schools and Institns. of the Univ., are accessible to students in London are the British Museum (Antiq. and Nat. Hist.); Horniman (Anthrop. and Zool.); London; Parkes (Sanitary Science); Practical Geol.; Roy. Archit. Soc.'s; Roy. Coll. of Surgeons'; Science, S. Kensington (Mech., Nav., and Struct. Engin., Phys., Maths., Chem., Physiog., Geol., and Biol.); Sir John Soane's (Art and Antiquarian); Victoria and Albert, S. Kensington (Archit. and Sculpture, etc.).

LABORATORIES. *See* under the several Colleges.

FACULTIES. 1. Theology. 2. Arts. 3. Laws. 4. Music. 5. Medicine. 6. Science. 7. Engineering. 8. Economics and Political Science. Deans: 1. Rev. Prof. C. Ryder Smith (Richmond Coll.). 2. Prof. Lillian M. Penson (Bedford Coll.). 3. Prof. R. S. T. Chorley (Lond. Sch. of Econ.). 4. Dr. R. J. Wickham Hurd (Trinity Coll. of Music). 5. Sir Girling Ball (St. Bart.'s Hosp.). 6. Prof. G. B. Jeffery (Univ. Coll.). 7. Prof. G. T. R. Hill (Univ. Coll.). 8. Prof. Abraham Wolf (Lond. Sch. of Econ.).

COMMITTEES OF THE SENATE. The five standing Committees are—The Academic Council, the Council for External Students, the Collegiate Council, the University Extension and Tutorial Classes Council and the Matricn. and School Examinations Council. There are about 30 other Committees, besides the 50 Boards of Studies.

TERMS for Univ. and Inter-collegiate courses, 1938–39: 6 Oct.–15 Dec.; 10 Jan.–21 March; 25 April–27 June.

DEGREES. B.D., M.Th., D.D.; B.A., M.A., D.Lit.; LL.B., LL.M., LL.D.; B.Mus., D.Mus.; M.B., B.S., M.D., M.S.; B.D.S.; B.Pharm.; B.Sc., M.Sc., D.Sc.; B.Com., M.Com.; Ph.D. (in Faculties of Theol., Arts, Laws, Music, Medicine (non-clinical subjects), Science, Engin., and Econ.).

The B.Sc. and D.Sc. are granted in the Faculties of Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science—B.Sc. only), Engineering, and Economics (including for External students, Estate Management); the M.Sc. in Science (including Agric., Hortic., Vet. Sc., and, for Internal students, Household and Social Science), Engineering, and Economics (including for External students, Estate Management).

ADMISSION. *See* Appendix I.

EXTERNAL students preparing for the Bachelorship undergo Intermediate

and Final examns. at intervals prescribed in the Regns., and approximating (except in Med., Dental Surgery, and Vet. Sc.) to 3 yrs. in all. All External students (except, for the present, those overseas) are required to register for each examn., and all must previously have matriculated. Copies of all Regns. may be obtained gratis and post free from the External Registrar.

An External student who has been absent through illness from part of the Final examn. for a First Degree may apply to the Univ. for an Aegrotat Degree.

External Examinations in the Overseas Dominions. Certain of the examns. of the Univ. for External students are held not only in London and at Provincial centres within Great Britain, but also in certain of the overseas Dominions of the Empire. In India, only the examns. in the Faculty of Theol. are held for civilians; but other examns. may be held for military personnel. The Matricn. examn. and the examns. in Theol., in Arts, in Laws, and in Economics have been held at about 150 overseas centres. The Univ. Examns. in Science have also been held under special arrangements at 16 overseas centres, including Ceylon, the Government of which colony now awards annually scholarships of a total value of £2400 per annum upon the results of the Univ. Final examns. in Arts and in Science.

An Internal student before being allowed to enter as such for any examn. must, unless specially exempted, have attended Instruction courses in all the subjects thereof. For a first degree in any Faculty he must have completed an Approved Course of Study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. A minimum number of hours of attendance is as a rule prescribed for each course, and a reduction is allowed in the case of an evening student who is certified by an employer to be engaged in his service for not less than 25 hours a week. The Interm. course generally extends over 1 yr. As a general rule, Hons. may be taken at the Final examns. A course of study extending over not more than 1 yr. taken in another Univ. approved for the purpose subsequently to a student's passing the Interm. may be accepted subject to regns. in lieu of a course taken in this Univ.

An Internal student who has been absent through illness from part of the Final examn. for a First Degree may apply to the Univ. for an Aegrotat Degree.

Any person who has passed the Interm. examn. as an *External* student may be allowed to take the Final examn. for the first degree after having attended for 2 yrs. as an Internal student an approved course of study for it, but the degree is not conferred till after a further yr.'s course of approved study.

Arts. In the Interm. examn. 4 subjects must be taken including 2 langs., of which one must be Latin with Rom. Hist., or Greek with Greek Hist. Natives of Asia or Africa may apply for permission to substitute for Latin or Greek—Classical Arabic, Classical Persian, Sanskrit, Pali, Classical Hebrew or Classical Chinese. In the Final examn. for the B.A. (General) Degree 3 subjects must be taken. The B.A. Honours Degree may be taken in any of the following branches: Chinese, Classics, Greek, Latin, Hebrew and Aramaic (including Syriac), Hist., Geog., Maths., Philos., Psychol., English, French, German, Italian, Portuguese, Spanish, Slavonic Studies, Indo-Aryan, Arabic, Persian, Japanese, also Celtic for External students, and, for Internal students, Dutch, Scandinavian Langs., Anthropol., Sociol., Hist. of Art.

The B.A. course in Archit. for Internal students extends over 5 yrs., but graduates of approved Univs. may be exempted from such part of the earlier yrs.' courses of study and examns. as the Senate may determine.

The M.A. is conferred in Archæol., Class. Hist., Hist. of Art, Maths., Mediæval and Mod. Langs., Oriental Langs., Philos., Educn., Geog., and, for

Internal students only, in Anthropol., Comp. Philol., Modern Greek, Psychol., Slavonic Studies, and Sociology. Internal students are required (except in Maths.) to submit a thesis. In some cases candidates must have taken Hons. at the B.A. examn. External students may take the M.A. examn. 2 yrs. after graduation in Arts. Candidates may only take 1 branch or section at a time. In most there is an oral examn.

The D.Lit. is open to M.A.s and Ph.D.s only, and is conferred for original work.

Diplomas. Teacher's, 1 yr. post-graduate (also for External students); Journalism, 2 yrs., graduates, 1 yr.; Librarianship, 2 yrs. for day students, 3-5 yrs. for evening students; Fine Art, 3 yrs. Academic Diplomas in Town Planning and Civic Archit. or Civic Engin., 2 evenings a week for 2 terms or 1 day a week for 3 terms; Hist. of Art, 1 yr. post-graduate; Geography, 2 yrs. (also for External students); Slavonic and East European Studies, 2 yrs.; Archæol. 2 yrs. post-graduate. Academic Post-graduate Dips. in Comparative Philol., Military Studies, Psychol. and Anthropol. 2 yrs. For Diplomas in the Humanities, v. University Extension, *infra.*

SCIENCE. For the Interm. examn. Pure or Applied Maths. or Physics must be taken with 3 other subjects. For Final (General) examn. any 3 of the following may be selected: Pure Maths., App. Maths., Astron., Physics, Chem., Geol., Bot., Zool., Physiol., Psych., Anthrop., Milit. Studies, Geog., Human Anat. and Morph., and Logic and Method (Ext. students), Statistics (Int. students). For B.Sc. (Special) examn. a student selects 1 principal and (except in case of Human Anat. and Morphol. or Maths.) 1 subsidiary subject. Honours may be awarded at both B.Sc. (General) and B.Sc. (Special) examn. For the M.Sc. for Internal students a thesis is required except in Maths.

For the Degree in Agric. the Interm. examn. includes Chem., Bot., Zool., and one alternative subject; the Final is in 2 parts, Pt. I. including Sciences in relation to Agriculture and Pt. II. Professional subjects. In Horticulture the subjects for the Interm. are Chem., Bot., Zool., Geol. or Applied Physics, and Garden Operations; for the Final, Pt. I. Principles of Hortic., Pt. II. Practice of Hortic. For the Degree in Vet. Sc. there are 4 examns. to be taken in their proper order. Bachelors of Science (Agric. or Vet. Sc.) are held to be eligible for the ordinary D.Sc. For the Degree in Household and Social Science there are 3 examns.: 1st Interm. (Phys., Inorg. Chem., Biol., and Social and Econ. Hist.); 2nd (Chem.—Org. and Phys., Gen. and Econ. Biol., Principles of Econ.); and Final (App. Chem., Physiol. and Bio-Chem., Hygiene and Bacteriol., and Household Work).

Diplomas. Academic Postgraduate Dip. in Bacteriology, 1 yr.; External Dip. in Biology, 1 yr.

THEOLOGY. The Interm. course is in Elementary Hebrew, New Testament Greek, either Classical Greek or Latin, Ancient Hist., and Psych. and Ethics; the Final in Old Test., New Test., Bibl. and Hist. Theol., Church Hist., Philos. Introdn. to Theol., and a selected subject. The Examn. in Theol.—Advanced Subjects, is open to those who have obtained Honours at the B.D. examn. or who have obtained a Pass at the B.D. examn. and have passed a further qualifying examn. Any one of the following subjects may be offered:—Hebrew and Aramaic, including Syriac; Greek New Test. and Apocrypha; Church Hist.; Biblical and Historical Theol.; the Study of Religion.

Candidates for the D.D. Degree must have obtained the B.D. Degree and have passed the Examn. in Theol.—Advanced Subjects, and must submit original published work.

Diplomas. Academic Dip. in Theol., 2 yrs. (also for External students).

LAW. The subjects of the Interm. course are Rom. Law, Engl. Const. Law, Engl. Legal System, and Crim. Law and Crim. Procedure, *or* Indian Penal Code and Crim. Procedure. For the LL.B. candidates must offer General Principles of English Law and Jurisprudence and Legal Theory and three other subjects selected from limited groups. Candidates for the LL.M. are examined in three selected subjects. Candidates for the LL.D. must hold the LL.M. or the Ph.D. degree in the Faculty of Laws.

MEDICINE. The course extends normally over 5½ yrs. In the first yr. courses in Inorg. Chem., Phys., and Genl. Biol. in preparation for the 1st examn. for Med. degrees are taken. The 2nd and 3rd yrs. are devoted to Hum. Anat. and Physiol. The 2nd examn. is normally taken 18 mos. after passing the 1st. The Final course for the M.B., B.S. degrees falls into 3 Parts as follows: Part I.—Pathology, Hygiene and Forensic Medicine; Part II.—Medicine, Applied Pharmacology and Therapeutics; Part III.—Surg., and Obstetrics and Gynæcology. The Parts may be taken separately or together, but degrees are not conferred until candidates have passed in all Parts.

Institutions outside the U.K. and Irish Free State, certificates from which for the complete course of Med. educn., including Clin. Med. and Surg. preparatory to the M.B., B.S. degrees for External students, are accepted by the Univ. of London: Univs. of Dalhousie, McGill, Adel. (with Infirmary), Melb. (with Melb. and Alfred Hospls.), Syd. (with Infirmary and Prince Alfred Hospl.), N.Z. (with Dunedin Hospl.); following Indian Med. Colleges—Grant (Bombay), Bengal (Calcutta), Lahore, Madras; Med. Coll., Colombo; Univ. of Malta; Sch. of Med., Cairo.

The M.D. may be taken in any of the following: Med, Path., Psych. Med., Midw. and Dis. of Women, Hygiene, Trop. Med.

The M.S may be taken in Surg., Dent. Surg., Ophth., or Laryn., Ot., and Rhin.

For the M.D. or M.S. a thesis or published work may be submitted.

The course for the B.D.S. extends normally over 5 yrs.—there are 4 examns. The subjects of the Final examn. are Med., Surg., Pharm. and Mat. Med., Pathol. and Bacteriol., Dental Surg. and Orthodontics.

B.Pharm. The Interm. subjects are Bot., Chem., Physics, and Zool.; Final subjects are Bot., Chem., Pharmacognosy, and Pharmacy.

Diplomas. Academic Postgraduate Diplomas in Clinical Path. (also for External students), Medical Radiol., Public Health (also for External students) 1 yr.; in Dietetics, 2 terms and 30 weeks' practical work. For Postgraduate Diploma in Psychological Medicine and Diploma in Nursing, v. University Extension *infra*.

MUSIC. The subjects for the Interm. examn. are Harmony and Counterpoint, Form and Analysis, and Hist. of Mus. For the B.Mus. examn.: Harmony and Compn., Counterpoint and Canon, Fugue, Hist. of Music, Musical Analysis, Musical Exercise. Candidates for the B.Mus. must submit a musical exercise. For the D.Mus. there is a written examn. and a musical exercise.

ENGINEERING. Interm. examn. subjects: Pure Maths. and Applied Maths., Heat, Elec. and Magn., Engin. Drawing, and either Sound and Optics or Chem. or Geol. In the Final examn. in *Engin.* not less than 5 subjects are taken, a wide choice being allowed; in *Metall.* 6. In *Mining* the Final examn. is divided into 2 parts, with 5 subjects in each part. For an Honours degree in Engin. or Metall. at least 1 extra subject must be taken at the Final examn. and a higher standard reached in all the subjects taken. In

Chem. Eng. the Final examn. is divided into 2 parts and candidates must pass Pt. I before they may enter for Pt. II.

ECONOMICS. The Interm. examn. for B.Sc. (Econ.) is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., Maths. or Logic or French or German. Pt. II.—English Econ. Hist., British Constitution. For the Final—Econ., two alternative subjects, an essay, translation from two languages, and a selected subject.

For the B.Com. the Interm. examn. is in 2 parts, which may be taken together or on different occasions. Pt. I.—Elements of Econ., Geog., a modern foreign lang. Pt. II.—English Econ. Hist., Elem. Statistical Method and Accounting. The subjects of the B.Com. examn. are Economics, Elements of Comml. Law, a foreign language and a selected group of subjects.

For the Degree in Estate Management there are 2 examns., Interm. and Final. Interm.: Pt. I.—Surveying, Econ., and Agric. or Town Planning; Pt. II.—Accounting and Land Law. (Pts. I. and II. may be taken separately.) Final: Pt. I.—Land and Buildings Valuation, Taxation and Tithe, Land Law; Pt. II.—Building Constrn., and *either* A (Agric., Forestry, Agric. Law) *or* B (Town Planning, Urban Pub. Sanitation, Munic. and Local Govt. Law). (Pts. I. and II. may be taken separately.)

Diplomas. Academic Dip. in Public Administration, normally 2 yrs. (also for External Students); Academic Postgraduate Dip. in Sociology and Social Administration, 2 yrs.' course, at least 150 hours in each.

MILITARY EDUCATION. See Appendix IV. 1. Military Studies is one of the optional subjects for the Interm. and Final B.A. and B.Sc. (General) examns. An Academic Dip. in Military Studies is awarded. All indoor instruction, lectures, etc., for this Diploma are held at King's Coll. from 5.30 to 7 P.M. on two evenings a week during term time.

AIR SQUADRON. The Univ. of London Air Squadron was founded in 1935 by the Air Ministry with the assistance of the Univ. Authorities. Its main object is to promote a serious interest in flying and its allied subjects. It does not form part of any Air Force either regular or non-regular and is intended to be civilian in character. It possesses a ground training centre in London at the Imperial College—City and Guilds College, and has allotted to it a flight of aeroplanes stationed at Northolt Aerodrome. Applications for membership should be addressed to the Chief Instructor, U. of L. Air Squadron, Exhibition Rd., London, S.W.7.

POSTGRADUATE STUDY AND RESEARCH. In most of the Colleges and Schools of the Univ. special arrangements are made for Research students, and the facilities offered are not restricted to Internal graduates of the Univ. External graduates and graduates of, and persons who have passed the degree examns. of, other approved Univs. are allowed, under certain conditions, to enter as Internal students for the degree of Bachelor or of Ph.D. in the several Faculties, and for the degree of M.A., LL.M. or M.Sc. Every candidate must submit evidence of graduation, etc., together with a certificate from the authorities of the College, School or Institution at which he proposes to study, stating that the student is, in their opinion, a fit person to undertake the proposed course of study and research, and that they are willing to supervise his work. An Overseas student may himself submit an application on the prescribed form, and the Univ. will, if so requested, advise as to the selection of the College, School or Institution at which, and Teacher under whom, he should study. Application for such advice should be addressed to the Academic Registrar. Overseas students should apply for registration before coming to

London, and their applications should reach the Univ. by May 1, or, if from Australia or New Zealand, March 1, to enable them, should their applications be successful, to enter upon their course of study in Oct., *i.e.* at the beginning of the session. Students whose applications are approved are required to pursue a course extending over at least 2 yrs.

An Internal student who is a candidate for the Ph.D. degree must have graduated in the Univ. in the faculty of Theology, Arts, Laws, Music, Medicine, Science, Engineering or Economics, or have been registered as a candidate for the degree after passing approved examns. for a degree in another Univ. An Internal student is further required to pursue a course of study of not less than two years' full-time, or four years' part-time, training in research and research methods. Any graduate of the Univ. may become a candidate for the Ph.D. degree in his first degree Faculty as an External student on receiving the approval of the Council for External students.

FEES. Matricn.—2½ gs.; Examn. and Graduation—12 gs. (Med., 29 gs.) for first Degree. Other Degree fees, 10 to 20 gs. Tuition, see the sections relating to the several colleges.

STUDENTSHIPS AND SCHOLARSHIPS. Studentships are awarded by the Senate in aid of advanced work or research. These include one of £50 p.a. for 1 or 2 yrs., open to students of Univ. Coll. in Maths.; one of £100 in Physiology, offered biennially; £100 and £140 in Arts; £100 in Econ.; £200 for the man or woman who, being resident in London and a graduate of the Univ., has done most in the preceding 5 yrs. to advance Medical Art or Science; £200 for a graduate of a British Univ. for the promotion of postgraduate research; 2 Univ. *Travelling Studentships* of £275 each, and 9 Univ. Studentships of £150 each, open to Internal and External graduates in all faculties; *Duveen Travelling Studentship* of £450 for research in Oto-Rhino-Laryngology. Three Scholarships of £50 each for 1 yr. are awarded annually for proficiency in Oriental Langs. The Scholarships Pamphlet, obtainable post free on application to the Univ., gives details of many others.

The *Sir Ernest Cassel Travelling Scholarships* (4) of £200 to £300 each, open to British students who pass the B.Com. Exam., and propose to pursue study of Commerce abroad.

For Research grants, etc., open to grads. of other Univs., *see* App. II.

ADVISORY SERVICE FOR EXTERNAL STUDENTS. Any External Student who is duly registered for an external examn. and experiences any difficulty in connexion with the appropriate studies may apply to the External Registrar for guidance. Such guidance may take the form of detailed schemes of study or personal discussion with an Advisor. For preliminary consideration there is no fee, but for detailed study scheme a fee of 1 to 5 guineas is charged.

THE COMMERCE DEGREE BUREAU exists to help in their studies External (especially extra-London) students proposing to take the Commerce Degree examns., to assist in the employment of Commerce Degree students and graduates at home and abroad, to provide a reference and lending library for students, and generally to promote the value and usefulness of the Commerce degree. The Bureau is administered by a Board of Governors. Offices were opened in 1922 in Russell Square and have now been transferred to the new building. There is a Bureau Educational Advisory Staff (Chief Advisor: Prof. A. Plant, B.Sc., B.Com.). Prospectus and enquiry forms obtainable on application to the Secretary.

The UNIVERSITY APPOINTMENTS BOARD is closely associated with the Commerce Degree Bureau, and their offices adjoin. Secretary, L. E. Ball, B.Sc.

RESIDENCE. Hostels recognized by the Senate: Connaught Hall of Residence, 16-20 Torrington Square, W.C.1, for 60 men students; Univ. Coll. Hall, Ealing, for 75 men students; College Hall, Malet Street, W.C.1, for 170 women students; King's Coll. Theological Hostel, 71 Vincent Square, S.W.1, for 75 men students; The Platanes, Denmark Hill, S.E.5, for 75 men students from King's Coll. and its Med. School.

Residence is also provided at or in connexion with the S.E. Agric. Coll., Wye, Bart 's, Guy's, Middlesex and St. Thomas' Hospl. Med. Schools, the Theol. Colls. at Hampstead and Highbury, and the Women's Colleges. London House, 1-8 Caroline Place, Mecklenburgh Sq., W.C.1, provides accommodation for 83 Dominion and British men students.

LODGINGS BUREAU, 42 Torrington Square, W.C.1. Enquiries to be addressed to the Lodgings Officer.

A UNION SOCIETY on the lines of those of Oxford and Cambridge was founded in March 1921. Address—University Union, 42 Torrington Square, W.C 1. The University Athletic Ground is at Motspur Park, Surrey, and the University Boat-House at Hartington Road, Chiswick.

UNIVERSITY EXTENSION. The work of the University Extension and Tutorial Classes Council may be considered to fall under the following heads: (*a*) Univ. Extension Lectures and Tutorial Classes; (*b*) Holiday Courses for Overseas Students; (*c*) Examn. for the Certif. of Proficiency in Religious Knowledge; (*d*) Examn. for Certificate of Proficiency in English; (*e*) Examns. for Certifs. of Proficiency in Danish, Dutch, French, German, Italian, Norwegian, Russian, Spanish and Swedish; (*f*) Examn. for Certif. of Proficiency in Diction and Drama; (*g*) Examns. for Diplomas in Hist., Lit., Econ., Social Studies, Economics and Social Sc.,* Hist. of Art, the Literary, Historical and Comparative Study of the Bible; (*h*) Examn. for Postgrad. Diploma in Psychological Med.; (*i*) Examn. for Diploma in Dramatic Art; (*j*) Examn. for Diploma in Nursing; (*k*) Examn. for Diploma in Theory and Practice of Phys. Educn.; (*l*) Examn. for Diploma in Theology; (*m*) Examn. for Diploma in Public Administration.

(*a*) *Univ. Extension Lectures* have been carried on by the Univ. since 1902 (prior to that, 1876–1902, by the London Society for the Extension of Univ. Teaching). Courses are held, at about 60 centres, on Hist., Lit., Econ. and Social Sc., Study of the Bible, Philos., Psychol., Painting, Architecture and Nat. Sc. A discussion class is held in connexion with each lecture, and students are encouraged to do regular written work for the lectr. An examn. for certifs. may be held at the end of each Sessional (24 or 25 lectures) or Terminal (10 or 12 lectures) course. A few short courses (5 or 6 lectures) of a *pioneer* or illustrative kind are arranged; in connexion with these there is no examn. Continuous study over several years is encouraged by the *Diplomas in the Humanities* (Hist., Lit., Econ., Social Studies, Hist. of Art, the Literary, Historical and Comparative Study of the Bible), awarded, under the Seal of the Univ., to students who carry on an approved co-ordinated course of study usually covering 4 yrs., and pass the required examns. (Diplomas in Hist., Lit. and Econ. are also awarded on the result of One Year Full-time study; Diploma in Econ. and Hist. of Art on the result of 2 yrs.' part-time study.)

The *Tutorial Classes for Working-people* extend over 3 consecutive years, and membership is usually limited to about 24 students, who undertake to attend regularly and to do regular written work for the tutor. Certifs. are not awarded.

* Until 1940–41 only.

(*b*) *A Holiday Course in English for Overseas Students* is held annually in London; (1939—July 21–Aug. 17). Special stress is laid upon Phonetic teaching. The course is designed to widen the students' knowledge not only of the Engl. Lang., but of English customs, institns., and art, by means of lectures, classes, excursions, etc. The total number of students admitted to the course is limited to about 300, and the number in each class to 8. During the 31 years 1904–1914 and 1919–1938 the course was attended by 7934 students from 55 countries.

(*c*) The *Examination for the Certificate of Proficiency in Religious Knowledge* is held once a year in June. It may be held at certain of the centres in the Provinces, Dominions and Colonies at which the June Matricn. examn. is appointed to be held, as well as in London.

(*d*) *Examinations for Certificate of Proficiency in English* (i) for candidates whose mother-tongue is not English, in Aug. and Dec., (ii) for English-born, in Aug. They are intended to provide evidence, which may not be guaranteed by a teacher's other certificates, of such a practical working knowledge of the English language, written and spoken, and of such acquaintance with Phonetics as may be of special value for teaching English in foreign countries (Scheme A), or to students whose mother-tongue is not English (Scheme B). For Scheme A, the min. age at entry, except in sp. cases, is 20; for Scheme B, cands. must present a School certif. and a certif. of competence to give instruction. Scheme B is to be discontinued in and after 1940.

(*e*) *Examinations for Certificates of Proficiency in* (i) *Danish*, (ii) *Dutch*, (iii) *French*, (iv) *German*, (v) *Italian*, (iv) *Norwegian*, (vii) *Russian*, (viii) *Spanish and* (ix) *Swedish* are held—(i), (ii), (iv), (vi), (vii) and (ix) in June, and (iii), (v) and (viii) in July. They are intended primarily for teachers who are not specialists in, but who require a Certif. testifying to their practical working knowledge of, the language, both spoken and written. Minimum age at entry, except in special cases, 20.

(*f*) The *Examination for the Certificate of Proficiency in Diction and Drama* is held once a year, in July, and is open to Registered Teachers, to Teachers on the Provisional and Associate Registers, and to others specially approved, who have taken a one-yr. course at Training Schools or Institutions approved for the third-yr. course for the Diploma in Dramatic Art.

(*g*) The *Examinations for the Diplomas in History*—General Hist. or Modern Hist.; *Literature*—English Lang. and Lit. or General Lit.; *Economics and Social Science*; *History of Art*; and *the Literary, Historical and Comparative Study of the Bible*—are held once a year for students who have followed a recognized course of study for 4 yrs. as part-time students, or in some cases for a shorter period.

(*h*) The *Examn. for the Postgraduate Diploma in Psychological Medicine* is held twice a year, in March and Apr. and in Oct. and Nov., and is open to candidates whose names are in the Medical Register or who are registrable therein, and who have had the required clinical experience. There are two forms of this Dip., for those desiring to specialize (i) in Mental diseases (Psychiatry), and (ii) in Mental Deficiency.

(*i*) The *Examn. for the Diploma in Dramatic Art* is held once a year, in July, and is open to students whose general education satisfies the Council and who have studied at least 2 yrs., after attaining the age of 17 yrs., at Training Schools or Institutions where courses have been approved.

(*j*) The *Examn. for the Diploma in Nursing* is held once a year in October and November, and is open to Registered Nurses (or Nurses eligible to sit for

the prescribed examn. for registration) whose general education satisfies the Council, subject to certain specified conditions with regard to Part B of the Examn.

(*k*) *Examns. for the Diploma in the Theory and Practice of Physical Education* are held—Part I. twice a yr., in June and Dec., Part II. once a yr., in May, open to students whose general education satisfies the Council and who, after completing their 18th yr., have studied at least 2 yrs. before Part I. and 3 yrs. before Part II. at Physical Training Colleges whose courses have been approved.

(*l*) *Examn. for the Diploma in Theology* is held once a year, in July, and is open to students not less than 19 yrs. of age whose general education satisfies the Council and who have taken 2 sessions of full-time study or 3 sessions of part-time study at a Theological College recognized for the Diploma.

(*m*) *Examn. for the Diploma in Public Administration* is held once a year, in July, and is open to students not less than 18 yrs. of age whose general education satisfies the Council and who have held for at least 2 yrs. an approved appt. in a recognized Public Office.

[*Further information and copies of the Regns. may be obtained from the University Extension Registrar, University of London, Senate House, W.C.1.*]

Inspection and Examination of Schools. A close relationship between examination and inspection has been carefully and continuously developed by the Univ. The County Councils of Middlesex and Surrey have placed their Secondary Schools to the number of 80 under the Univ. for regular inspection and for the holding of the School examns., the local authority in each case making a special financial arrangement with the Univ.

Inspection may include either a general inspection of the whole school or a special inspection of certain subjects or groups of subjects. It may be so combined with the Certificate examns. that these form an integral part of it. It may also include an examn. carried on by the Inspectors and the Staff of the school in co-operation. This system of combined inspection and examn. is known as Examinational Inspection, and is capable of considerable variation to meet the requirements of any particular school.

The *Examinations for School Certificates* are held only in Schools inspected by the Univ. or under other approved inspection. See App. I.

The *Higher and General School Examinations* are recognized by the Board of Education as "Second" and "First" examns. respectively (v. App. I.), and the Certifs. A. and B. awarded to candidates attending schools recognized by it as efficient Secondary Schools are attested by it.

In the case of each of the School examns. an Inspector visits the school for the purpose of conducting an oral examn. in such Mod. Langs. as are taken. Practical examns. in Science form an essential part of the examn. in the case of the Higher School examn.

Publications. The following are obtainable from Eyre & Spottiswoode, Ltd., 6 Great New Street, London, E.C.4:

The Calendar, pubd. in Sept., price 6s. net, postage 6d. *Regns. and Courses for Internal Students* (the "Red Book"), pubd. in Sept., 2s. 6d., postage 6d. The Courses are pubd. separately for the several Faculties. The *Regulations for External Students* (the "Blue Book"), pubd. in Sept., 1s. 6d. net, postage 6d. *London Univ. Gazette*, pubd. at average intervals of 4 weeks; the Examn. Lists are pubd. in Suppls.; annual subs., including postage, 5s.; single no., 8d. *Examn. Papers*, published as soon as possible after the several Examns.; prices vary from 10d. to 2s. 11d. *Libraries of London*: a Guide to Students, by R. A. Rye, Goldsmiths' Librarian, 3rd edition, 10s. *Historical*

Record of the Univ., Second Issue, 1836–1926, contains (*a*) a Hist. of the Univ.; (*b*) former Fellows; (*c*) Donations and Trusts; (*d*) Graduates; (*e*) persons to whom prizes, etc., have been awarded; 5s. net., postage 6d.

Regulations. The following may be obtained on application to the Univ.: Regns. for Matricn.; Regns. for Int. and for Ext. Students (pubd. separately) for Degrees in Arts, Science, Agric., etc.; for the various Diplomas and Certificates in special subjects; for Ph.D. Degree; Scholarships pamphlet; pamphlet of *General Information* for Internal Students. Applications for any of these should be addressed to the Principal.

O.T.C. Handbook obtainable from the Secy., London, W.C.1.

THE YEAR 1937–38

Benefactions. Most notable benefaction of yr. was gift of £50,000 from Lord Nuffield which, with £5000 promised already by Rhodes Trustees added to grants of £35,000 from University Grants Committee and £25,000 from National Fitness Council, will provide required sum for a new Union Building. Lord Beauchamp, a former Chancellor of Univ., presented paintings of William IV (who gave the Univ. its first Charter) and Queen Victoria, and books for Univ. Library. Mr. Chester Beatty has provided £400 p.a. for 2 yrs. in order that a student of radiology may, after obtaining his Diploma from Univ. of London, spend a yr. in one of the great radiological clinics of the United States. The Cassel Trustees, who for many years have made annual grants for Travelling Studentships in Commerce and Modern Language teaching for B.Com. students, have this yr. converted part of their annual grant into endowment by transferring to Univ. £25,000 3½% Conversion Stock, the interest on which will be used for modern language teaching.

Univ. Library: French Government, 273 selected vols. Earl Beauchamp, 7 vols. of Roxburghe Club publications. F. J. Nettlefold, Catalogue of his collection of Martinware and Diderot's *Encyclopédie* in 26 vols. Egyptian University, 14 works on Egyptian and Greek archæology. Friends of the National Libraries, about 700 works from the bequest of Miss A. B. Marshall, and several other books. Miss Frances Henry, 67 vols. of Italian literature and history. Univ. of Oslo, 23 vols. of reports of Norwegian Polar Expeditions. City and University Library of Gothenburg, 39 vols. of Univ. publications. Mr. Harry Price added 1138 volumes and pamphlets to his Library of Magical Literature. Through the National Central Library a number of books and periodicals were received from various other libraries.

New Buildings. Original design for new Univ. buildings was for continuous building with "spine" running north and south and lateral blocks or wings for various institutions which were to be housed on site. In 1937, however, when plans for Birkbeck College and School of Oriental Studies were under consideration, events arose which necessitated departure from original design. Funds available to both Schools necessitated that buildings should be planned as economically as possible. In particular it was decided that they should be faced with brick instead of Portland stone. This involved reconsideration of general design for buildings as a whole. The Architect has therefore worked out new scheme, under which present Senate-House block, Tower and Institute of Education, with buildings to be erected to the east of it, will form a group in Portland stone occupying roughly two-fifths of site. To the north of this, but quite separate, will be built in brick Birkbeck College (to the west of site on Malet Street) and School of Oriental Studies (at the south-east end of Torrington Square), leaving the Torrington Square gardens area between, with vista from the north on direct line of Tower. A site north of Birkbeck

College, at north-west end of square, has been allotted for the premises of Univ. Union. The building of new Students' Union has been made possible by gifts recorded under " Benefactions " above.

In long vacation of 1937 a large part of library, in particular the Goldsmiths' Library, was transferred to reading-rooms built by Goldsmiths' Company and Middlesex County Council. Completion during 1938 of second Middlesex Room and Tower bookstacks made it possible to transfer remaining part of library from South Kensington in long vacation of 1938. Institute of Education occupied their new premises, north of Senate House and facing Malet Street, during last week of August 1938. School of Slavonic Studies, for which second floor of Institute of Education building was reserved, hopes to take up their new quarters during 1938–39. [Premises transferred Jan. 1939.]

NEW POSTS. At *Courtauld Inst. of Art*: Chair of History of Technology of Art. At *Univ. Coll.*: Readership in Embryology (in place of Chair). At *Imperial Coll.*: Readership in Atomic Chemistry; Readership in Mathematics. At *London School of Economics*: Readership in Business Finance. At *London School of Hygiene and Trop. Medicine*: Readership in Medical Parasitology. At *Coll. of Pharmaceut. Soc.*: Chair of Pharmacology.

NEW DEVELOPMENT. Regulations for the M.Th. degree are under consideration.

UNIVERSITY EXTENSION. Number of Lecture Courses: Sessional (24 or 25 Lectures), 46; Terminal (10 or 12 Lectures), 48; Short (4 or more Lectures), 33. Terminal entries of Students for all Courses, 7142. Humanities Diploma Students, 481. Advanced Tutorial Classes, 3. Three-Year Univ. Tutorial Classes, 62; Preparatory Classes, 4; Students, 1245.

The Holiday Course in English for Overseas Students was again very successful: there were 279 students, representing 31 nationalities.

VISITORS who lectured in the University: Prof. John Baillie of Edinburgh (Theol.); Prof. A. R. Radcliffe-Brown of Oxford (Anthropol.); Dr. F. Weidenreich of Peiping (Anthropol.); Prof. T. Whittemore of Harvard (Archæol.); Prof. F. E. Adcock of Cambridge (Classics); Prof. D. Nichol Smith of Oxford (English); M. Bengt de Törne (Fine Art); Prof. Hermann Schneider of Tübingen (German); Prof. G. Lefebvre of the Sorbonne (Hist.); Gen. Sir W. Edmund Ironside (Military Studies); Dr. Robin Flower (Palæog.); Prof. Edgar Rubin of Copenhagen (Psychol.); Prof. Fernand Gregh of the Sorbonne (Romance Langs.); Dr. Cecil T. Carr (Laws); Dr. Ludwik Ehrlich of Lwów (Laws); Dr. Max Grünhut of Bonn (Laws); Prof. Gaston Jéze of Paris (Laws); Prof. G. W. Paton of Melbourne (Laws); Dr. E. C. S. Wade of Cambridge (Laws); Prof. F. H. Shera of Sheffield (Music); Prof. I. Snapper of Amsterdam (Adv. Med.); Prof. J. Boeke of Utrecht (Human Anat.); Dr. Georg Wolff of Berlin (Hygiene); Dr. J. W. Trevan (Pharmacol.); Prof. P. E. Verkade of Rotterdam (Biochem.); Prof. A. I. Virtanen of Helsinki (Biochem.); Prof. Th. J. Stomps of Amsterdam (Botany); Prof. W. P. Jorissen of Leiden (Chem.); Prof. T. Svedberg of Upsala (Chem.); Prof. C. de la Vallée Poussin of Louvain (Maths.); Prof. J. Chadwick of Liverpool (Physics); Prof. P. Debye of Berlin (Physics); Prof. B. P. Babkin of Montreal (Physiol.); Prof. A. P. H. A. de Kleijn of Amsterdam (Physiol.); Prof. Pol Gérard of Brussels (Physiol.); Prof. E. Meyer of Berlin (Engin.); Prof. Frank H. Knight of Chicago (Econ.); Prof. R. H. Tawney (Creighton Lecture); Prof. R. Pearl of Baltimore (Heath Clark Lectures); Prof. E. Schmiegelow of Copenhagen (Semon Lecture).

HONORARY DEGREES. *D.Lit.*—H.M. The Queen. *D.D.*—The Lord Bishop of Portsmouth (the Rt. Rev. Frank Partridge). *M.A.*—Miss L. le Teller

Swann, M.B.E.; Capt. G. E. Tatchell. *D.Lit.*—Dr. A. W. Pollard, C.B. *LL.D.*—The Very Rev. J. H. Hertz; W. T. Prideaux. *D.Sc.*—Sir Robert L. Mond, F.R.S. *D.Sc.* (*Eng.*)—Sir Charles Bressey, C.B., C.B.E.

STUDENTS. Total admissions in the year 1937 were 14,011, of whom 3634 were exempted from the ordinary matricn. examn.: 721 as graduates of other Univs., 2913 as holders of approved certificates, and 409 after passing the Special Univ. Entrance examn. Of 5502 candidates for first degrees, 3196 were internal and 2306 external. The total number of internal students on the rolls was 13,912, while about 10,000 were registered as external.

INCORPORATED COLLEGES

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE

Founded 1826

Gower St., W.C.1.
Telegrams: University College, London.
Telephone: Euston 4400.

CHAIRMAN OF THE COLLEGE COMMITTEE—The Rt. Hon. THE VISCOUNT SANKEY OF MORETON, P.C., G.B.E., D.C.L. Ox., LL.D. Wales, Camb., and Bristol.

VICE-CHAIRMAN—The Rt. Hon. LORD MESTON, K.C.S.I., V.D., LL.D. Aberd. and Edin., M.D. Zür.

TREASURERS—A. DIGBY BESANT, B.A., Past Pres. I.A.; The Rt. Hon. LORD LOCH, C.B., C.M.G., M.V.O., D.S.O.

PROVOST—SIR ALLEN MAWER, M.A., Litt.D. Camb., D.C.L. Durh., F.B.A.

SECRETARY—E. L. TANNER, M.A., Camb., A.C.A.

LIBRARIAN—J. A. WILKS, M.A.

TEACHING STAFF

Anatomy and Embryology

..... Prof.
Fielding, Una, B.A., B.Sc., M.B., Ch.M. Syd.
(Neurolog. Anat.) Reader.
de Beer, G. R., M.A., D.Sc. Ox.
(Embryol.) Actg. Hd. of Dept., Reader.
Gray, J. H., M.B., B.S. Adel.
Sr. Demr.
O'Connor, R. J., M.B., B.S. Adel., D.T.M. Liv. Sr. Demr.
Young, M., M.D. Glas., D.Sc. Lectr.
Richardson, K. C., M.Sc. W. Aust.
(Histol.) Lectr.
Ludford, R. J., D.Sc., Ph.D.
(Cytol.) Hon. Lectr.

Demrs.

Flemming, C. W., M.A., B.M., M.Ch. Ox., F.R.C.S.
Pollitt, A., M.A., M.B., B.Ch. Dub., D.M.R.E. Camb.
Weddell, A. G. M., M.B., B.S.
Pritchard, J. J., B.A. Ox., B.Sc. Adel.
Norrish, R. E, F.R.C.S.
4 Hon. Research Assts.

Anthropology, Cultural [Reader.
Perry, W. J., M.A. Camb., D.Sc.

Archæology, v. also Egyptol.
Ashmole, Bernard, M.A., B.Litt. Ox., F.B.A. Yates Prof.
Wheeler, R. E. M., M.A., D.Lit., F.S.A. (Brit. A.) Lectr.
Richards, F. J., M.A. Ox. (Indian A.) Hon. Lectr.
Codrington, K. de B., M.A. Camb. (Indian Art) Hon. Lectr.

Architecture, v. *infra* Bartlett School of Architecture

Art (*Fine Arts*) [Slade Prof.
Schwabe, R., A.R.W.S.
Borenius, Tancred, Ph.D. Helsing., D.Lit., F.S.A. (History of Art) Durning-Lawrence Prof.
Bayes, W., A.R.W.S. Lectr.
11 Assts.

Astronomy, v. Maths.

Bibliography, v. English and Librarianship

Biochemistry, v. Physiol.

Biometry
Haldane, J. B. S., M.A. Ox. and Camb., F.R.S., Chev. Lég. d'H. Weldon Prof.

Botany
Hill, T. G., D.Sc., A.R.C.S. (Plant Physiol.) Prof. and Dir. of Labs.
Salisbury, E. J., D.Sc., F.R.S. Quain Prof.
Haas, P., Ph.D. Freib., D.Sc. (Plant Chem.) Reader.
Cutting, E. M., M.A. Camb. Sr. Lectr.
Russell-Wells, Barbara, B.Sc., Ph.D. Lectr.
Jane, F. W., B.Sc., Ph.D. Lectr.
Coult, D. A., M.Sc. Asst. Lectr.
1 Quain Student.

Celtic
Flower, R. E. W., B.A. Ox., D.Litt. Celt. N.U.I., Litt.D. Dub., F.B.A. Hon. Lectr.

Chemical Engineering
Watson, H. E., D.Sc., F.I.C., M.I.Chem.E. Ramsay Prof.
Mullen, J. P., M.Eng. Liv. Lectr.
Donald, M. B., M.Sc. Mass. Inst. Technol., A.R.C.S. Lectr.

Chemistry
Ingold, C. K., D.Sc., F.R.S. Prof. and Dir. of Labs.
Sugden, S., D.Sc., A.R.C.S., A.I.C., F.R.S. Prof.
Collie, Prof. Emer. J. Norman, Ph.D. Würz., LL.D. Glas., D.Sc. Liv. and Belf., F.R.S. Hon. Lectr.
Brady, O. L., B.A. Cape, D.Sc., F.I.C. (Org. C.) Reader.
Terrey, H., B.Sc. Reader.
Goodeve, C. F., M.Sc. Manit., D.Sc. Reader.
Bailey, C. R., B.A., M.Sc. Reader.
Evans, H. J., B.Sc. (Med. Students) Sr. Lectr.

Hon. Lectrs.
Freeth, F. A., O.B.E., Ph.D. Leiden, D.Sc. Liv., F.R.S.
Hartley, G. S., D.Sc.
Lunt, R. W., Ph.D. Liv., M.Sc. (Eng.).

Lectrs.
Day, J. N. E., M.Sc., Ph.D., A.R.C.S.
Gilbert, L. F., B.Sc.
Le Fèvre, R. J. W., D.Sc., Ph.D.
Poole, H. G., M.Sc. Melb., Ph.D.
Walker, O. J., Ph.D. Edin.
Wilson, C. L., B.Sc. Leeds, Ph.D.
Grove, W. P., B.Sc. Asst. Lectr.
Hughes, E. D., D.Sc., Ph.D. Asst. Lectr.
2 Hon. Research Assts.

Classics
Smiley, M. T., M.A. Dub. (Greek) Prof.
Butler, H. E., M.A. Ox. (Latin) Prof.
Solomon, L., M.A. Ox. Sr. Lectr.
Lockwood, J. F., M.A., Ph.D. (Gk.) Lectr.
M'Lellan, R. D., B.A., Ph.D. (Latin) Lectr.
Flower, Barbara, B.A. Ox. Asst. Lectr.
Kells, J. H., B.A. Belf. and Camb. Asst. Lectr.

Danish, v. Scandinavian

Dutch History and Institutions

Renier, G. J., Ph.D. Reader.

Dutch Lang. and Lit. [Reader.

Weevers, Th., Lit.D. Leiden

Economics, v. Polit. Econ.

Economic Geography, v. Geog.

Egyptology and Coptic

Glanville, S. R. K., M.A. Ox., F.S.A. Edwards Prof.

1 Hon. Res. Asst.

Embryology, v. Anatomy

Engineering, v. *infra*

English

Chambers, R. W., D.Litt. Durh., Litt.D. Leeds, M.A., D.Lit., F.B.A. Quain Prof.

Sisson, C. J., M.A. Edin., D. ès L. Dijon, D.Lit. Lord Northcliffe Prof.

Greg, W. W., Litt.D. Camb., D.Litt. Ox, F.B.A. (Bibliogr.) Hon. Lectr.

Batho, Edith C., M.A., D.Lit. Reader.

Smith, A. H., Ph.D. Leeds, D.Lit. Reader.

Lectrs.

Hitchcock, Elsie V., Ph.D., D.Lit.

Tillotson, G., M.A., B.Litt. Ox.

Husbands, H. Winifred, M.A.

Pattison, B., M.A. Durh., Ph.D. Camb. Asst. Lectr.

Smithers, G. V., B.A. Ox. and S.A., M.A. S.A. Asst. Lectr.

1 Quain Student.

Eugenics, v. *infra*

French, v. also Hist.

Brandin, L. M., M.A., Ph.D. Greifs. (to 30.9.39) Fielden Prof.

Woledge, B., M.A. Leeds, D. de l'U. Paris (from 1.10.39) Fielden Prof.

Jeaffreson, J. W., M.A. Sr. Lectr.

Stéphan, E. M. Sr. Lectr.

Schlumberger, Beatrice J., M.A. Sr. Lectr.

Starke, Dora, M.A. Lectr.

Tancock, L. W., B.A., Ph.D. Lectr.

Smith, C., M.A. Manc. Asst. Lectr.

1 Asst.

Geography

Fawcett, C. B., B.Litt. Ox., D.Sc. (Econ. and Regl. G.) Prof.

Hart, C. A., M.Sc. (Eng.) (Surveying) Sr. Lectr

Buchanan, R. O., M.A. N.Z., B.Sc. (Econ.), Ph.D. Reader.

Dickinson, R.E., M.A. Leeds, Ph.D. Lectr.

Shaw, G. W., Dr.rer.Nat. Prague, B.A. Asst. Lectr.

Geography, Physical, Geology and Mineralogy

King, W. B. R., O.B.E., M.A. Sc.D. Camb. Yates-Goldsmid Prof.

Goodyear, Edith, B.Sc. Hon. Lectr.

Chubb, L. J., M.Sc., Ph.D. Lectr.

MacGregor, M., M.Sc., Ph.D. Lectr.

Wilson, G., B.Sc. McG., M.Sc. Wisc., Ph.D. Asst. Lectr.

German

Willoughby, L. A., Ph.D. Vienna, M.A., D.Lit. Prof.

Perrett, W., Ph.D. Jena, B.A. Reader.

Maurer, K. W., Dr.Phil. Tübingen Lectr.

Asst. Lectrs.

Hentschel, E. C., M.A.

Magill, C. P., M.A. Camb., Ph.D.

Walshe, M. O'C., M.A.

Hebrew, v. also Semitic Epigraphy

Stein, S., Ph.D. Heid. Goldsmid Lectr.

History, v. also Art and Medicine

Neale, J. E., M.A. Liv. (English H.) Astor Prof.

Davis, Eliza Jeffries, M.A., F.S.A. (London H.) Reader.
Cobban, A., M.A., Ph.D. Camb. (Mod. French H.) Reader.
Bellot, H. Hale, M.A. Ox. (Amer. H.) Commonwealth Fund Prof.
Cary, M., M.A., D.Litt. Ox. (Ancient H.) Prof.
Baynes, Norman H., D.D. St. And., M.A. Ox., F.B.A., F.S.A. (Byzantine H.) Prof.
Thomson, M. A., M.A., D.Phil. Ox. Reader.
Valentin, V., Ph.D. Berlin. (German H.) Sp. Lectr.
Renier, G. J., Ph.D. (also Dutch H.) Tutor, Evening School of H.
Humphreys, R. A., M.A., Ph.D. Camb. Lectr.
Le Patourel, J. H., M.A., D.Phil. Ox. Lectr.
Bindoff, S. T., M.A. Lectr.

Asst. Lectrs.

Gash, N., B.A., B.Litt. Ox.
Barlow, F., B.A., B.Litt., D.Phil. Ox.
Drower, Margaret S., B.A. (Ancient H.).

History and Philosophy of Science

Wolf, A., M.A. Camb., D.Lit. (Logic and Scientific Method) Prof.
McKie, D., D.Sc., Ph.D. Lectr.
1 Asst.

Italian

Pellizzi, C., Dott. Legge Pisa, D.Lit. Prof.
Foligno, C., M.A. Ox., Dott. Lett. Milan. Barlow Lectr.
Bassani, A. M., Sc.D. Naples Lectr.
Weiss, R., B.A. Ox. Asst. Lectr.

Law, v. p. 223

Librarianship [Director.
Cowley, J. D., M.A. Ox., F.L.A.
Wilks, J. A., M.A., F.L.A. Asst. Dir.

Lectrs.

Esdaile, Arundell, M.A. Camb., F.L.A. (Bibliography).
Sayers, W. C. Berwick, F.L.A. (Sp. Administration).
Headicar, B. M., F.L.A. (Gen. Administration).
Taylor, Margaret, M.A. Ox., F.L.A. (Cataloguing and Classification).
Ratcliff, S. C., M.A. Ox. (Palæog. and Archives).

Mathematics

Jeffery, G. B., M.A., D.Sc., F.R.S. Astor Prof.
Massey, H. S. W., M.Sc. Melb., Ph.D. Camb. Goldsmid Prof.
Wren, T. L., M.A. Camb. (Geom.) Reader.
Bosanquet, L. S., M.A., D Sc., D.Phil. Ox. Reader.
Jessop, H T., M.Sc. (Mechs.) Sr. Lectr.
Gregory, C. C. L., M.A. Camb., F.R.A.S. (Astronomy) Sen. Lectr. and Director of the Univ. Observatory.
Archbold, J. W., M.A. Camb. Lectr.
Estermann, T., Dr. Nat. Sci. Hamburg, D.Sc. Lectr.
Kestelman, H., M.Sc. Lectr.
Rigby, Constance M., M.A. Ox., Ph.D. Lectr.
Stevenson, A. C., M.Sc. Lectr.
Wigglesworth, L. A., M.Sc. Asst. Lectr.

2 Assts., 3 Demrs.

Medicine, History of

Singer, C., M.D., D.Litt., D.Sc. Ox., F.R.C.P. Prof.

Norwegian, v. Scandinavian

Pharmacology, v. Physiol.

Philology

Braunholtz, G. E. K., M.A. Camb., Ph D. Berlin.
(Classical) Lectr.

Philosophy

Macmurray, J., M.A. Ox. and Glas.
(P. of Mind and Logic) Grote Prof.
Keeling, S. V., B.A. Camb., D. ès L. Montp., M.A., D.Lit
Reader.
Wind, E., Ph.D. Hamb.
Hon. Lectr.
Duncan, A. R C., M.A. Edin.
Asst. Lectr.

Phonetics

Jones, Daniel, M.A. Camb., Dr. Phil. Zur. Prof.
Perrett, W., Ph.D. Jena, B.A.
(German) Reader.
Lloyd-James, A., B.A. Wales, M.A. Camb. Hon. Lectr.
Coustenoble, Hélène Lectr.
Davies, Hyacinth M. Lectr.
Fry, D. B., B.A.
Lectr. and Superint. of Lab.
Evans, Eileen, M., B.A. Lectr.
Scott, N. C., B.A., B.Sc. Lectr.
Henderson, Eugenie J. A., B.A.
Asst. Lectr.
4 Assts.

Physics

Andrade, E. N. da C., Ph.D. Heid., D.Sc., F.R.S.
Quain Prof. and Dir. of Labs.
Wood, D. O., M.Sc., A.R.C.S., F.Inst.P.
Sr. Lectr. and Depy. Dir. of Labs.
Gibbs, R. E., D.Sc. Reader.
Eumorfopoulos, N., B.Sc.
Hon. Research Asst.
Chalklin, F. C., D.Sc., Ph.D. Lectr.
Brown, G. B., M.Sc., Ph.D. Lectr.
Brown, R. C., B.Sc., Ph.D. Lectr.
Duncanson, W. E., M.Sc. Syd., Ph.D. Camb. Lectr.
Asst. Lectrs.
Vick, F. A., M.Sc., Ph.D. Birm.
Dodd, C., B.Sc.

Physiology, Pharmacology and Biochemistry

Evans, C. Lovatt, LL.D. Birm., D.Sc., F.R C.P., F.R.S. (Physiol.)
Jodrell Prof. and Dir. of Labs.
Winton, F. R., M.D.
(Pharmacol.) Prof.
Drummond, J. C., D.Sc.
(Biochem.) Prof.
Hill, A. V., O.B.E., M.A., Sc.D. Camb., D.Sc. Ox. and Manc., LL.D. Edin., F.R.S. (Physiol.)
Foulerton Prof. (Roy. Soc.) and Univ. Prof.
Lythgoe, R. J., M.A., M.D. Camb., D.Sc. (Sense Organs) Reader.
Ing, H. R., M.A., D.Phil. Ox. (Pharmacol. Chem.) Reader.
Newton, W. H., M.D., M.Sc. Manc. Reader.
Kerridge, Phyllis M. Tookey, M.Sc., Ph.D. Lectr.
Stella, G., M.D. Padua Lectr.
Young, L., Ph.D. Lectr.
Smyth, D. H., M.Sc., M.B., B.Ch., B.A.O. Belf. Lectr.

Hon. Research Associates

Duke-Elder, Sir Stewart, M.A., D.Sc., M.D. St. And., Ph.D., F.R.C.S.
Fish, E. W., D.Sc., M.D. Manc., L.D.S.
Bourne, Margherita C., B.A. Tulane, M.Sc., Ph.D. Washington.
Kerly, L. Margaret, M.A. Camb., Ph.D. Asst. Lectr.

Demrs.

Tansley, Katharine, Ph.D., D.Sc.
Moss, A. R., B.Sc.
Davson, H., B.Sc.
Lawton, J. H. T., Ph.D.
Raisin, C. G., Ph.D.

Schild, H. O., M.D. Münich, Ph.D. Edin. (Pharmacol.).
1 Sharpey Schol., 2 Hon. Res. Assts., 1 Hon. Demr.

Political Economy

Gaitskell, H. T. N., B.A. Ox. Reader and Head of Dept., Tutor to Higher Civ. Service Students.
Rosenstein-Rodan, P. N., D.rer. Pol., B.Comm. Vienna (Hist. of Econ. Thought) Reader.
Balogh, T., D.rer Pol. Budapest. Hon. Lectr.
Barger, H., B.A. Camb., Ph.D. Lectr.
Stonier, A. W., B.A. Ox., D.Phil. Heid. Asst. Lectr.

Psychology

Burt, C., M.A., D.Sc. Ox. Prof.
Flugel, J. C., B.A. Ox., D.Sc. Asst. Prof.
Philpott, S. J. F., D.Sc. Lectr.
Hopkins, Pryns, Ph.D., M.A. Hon. Lectr.
2 Research Assts.

Scandinavian Studies

Mawer, Sir Allen Hon Director.
Helweg, J. H., cand. mag. Copenhagen (Danish) Queen Alexandra Lectr.
Gröndahl, I. C., cand. mag. Oslo (Norwegian) W. P. Ker Lectr.
Mesterton, E., fil. mag. Uppsala (Swedish) Crown Princess Louise Lectr.

Semitic (North) Epigraphy

Stein, S., Ph.D. Heid. (Hebrew) Goldsmid Lectr.

Statistics

Pearson, E. S., M.A. Camb., D.Sc. Prof.
Elderton, Ethel M., D.Sc. Hon. Res. Assoc.
Welch, B. L., B.A. Ox., Ph.D. Lectr.
David, Florence N., Ph.D. Asst. Lectr.
Johnson, L. N., M.Sc. Asst. Lectr.

Surveying, v. *infra*, Engineering

Town Planning, v. *infra* Bartlett School of Architecture

Zoology & Comparative Anatomy, v. also Biometry

Watson, D. M. S., D.Sc. Manc., F.R.S. Jodrell Prof.
Fraser, Elizabeth, D.Sc. Reader.
Russell, E. S., O.B.E., M.A., D.Sc. Glas. Hon. Lectr.
Wells, G. P., M.A. Camb. Lectr.
Howes, N. H., M.Sc. Lectr.
White, M. J. D., M.Sc. Lectr.
Carleton, Mary, Ph.D. Brist. Asst. Lectr.
Barnicot, N. A., B.Sc. Asst. Lectr.
1 Res. Asst., 4 Hon. Res. Assts., 1 Aquarium Asst.

Engineering

Chemical Engineering, v. *supra*

Engineering

Hill, G. T. R., M.Sc. (Eng.), M.I.Mech.E., F.R.Ae.S. Kennedy Prof. and Dir. of Eng. Labs.
Collins, H. J., M.Sc. (Eng.) Birm., M.Inst.C.E., M.I.Mech.E., M.I.Struct.E. Chadwick Prof.
Lloyd-Evans, B. J., M.Sc., M.I.Mech.E. Asst. Prof.
Webb, A. E., B.Sc. (Eng.) Sr. Lectr.
Hart, C. A., M.Sc. (Eng.) (Surveying) Senr. Lectr.
Delafield, M. E., B.A., M.B., B.Ch., D.P.H. Camb. (Hygiene). Spl. Lectr.
Capper, P. L., M.Sc. Lectr.
Watts, S. S., B Sc. (Eng.) Lectr.

Cassie, W. F., M.Sc. Ill., Ph.D. St. And. Lectr.
Ballantyne, A. M., B.Sc., Ph.D. Glas. Asst. Lectr.
1 Sr. Asst.

Engineering, Electrical

Kapp, R. O., B.Sc. Birm., M.I.E.E. Pender Prof. and Dir. of Elec. E. Labs.
Barlow, H. E. M., B.Sc., Ph.D. (Electro - Communications) Reader.
Bayliss, C. W., M.A. Camb. (Electrical Machinery) Lectr.
Dunford, A., B.A. Camb. Asst. Lectr.

Galton Laboratory for National Eugenics

Eugenics (including Anthropometry)

Fisher, R. A., M.A., Sc.D. Camb., D.Sc. Harv., F.R.S. Galton Prof.
Bell, Julia, M.A. Dub., F.R.C.P. Hon. Galton Research Fellow.
Morant, G. M., D.Sc. Lectr.
Mather, K., B.Sc. Vict., Ph.D. Lectr.
Stevens, W. L., B.A. Camb., B.Sc. Lectr.
Taylor, G. L., M.D. Manc., Ph.D. Camb. Hon. Research Assoc.
Fabergé, A. C., B.Sc. Reading, Ph.D. Asst. Lectr.
Norton, H. W., B.S. Wis., M.S. Iowa Asst. Lectr.
Karn, M. Noel, M.A. Research Asst.
Prior, Aileen M., M.Sc. Hon. Res. Asst.

Bartlett School of Architecture

Richardson, A. E., A.R.A., F.S.A., F.R.I.B.A. Prof.
Abercrombie, P., M.A. Liv., F.R.I.B.A. (Town Planning) Prof.
Corfiato, H. O., S.A.D.G. Paris, F.R.I.B.A. (Design) Prof.
Wilson, H. Warren, A.R.C.A. (Decoration) Lectr.
Dawson, M. J., F.R.I.B.A. (Building Constrn.) Lectr.
Stanley, L. S., M.A. Camb., F.R.I.B.A. Lectr. & Tutor.
Ashworth, H. I., M.A. Manc., F.R.I.B.A. Lectr.
Hyde, S., A.R.I.B.A. Lectr.
Richardson, E. G., B.A., D.Sc., Ph.D. (Acoustics) Hon. Lectr.
White-Cooper, R. C., B.A., A.R.I.B.A. (Decoration) Asst.
Shoosmith, A. G., O.B.E., F.R.I.B.A. Asst.
Carr, F. H., A.R.I.B.A. (Town Planning) Studio Instr.
Harvey, J. D. M., B.A. (Town Planning) Studio Instr.

GENERAL INFORMATION

Founded in 1826 and opened Oct. 1, 1828, under the name of "The University of London," the College was incorporated as "University College, London," by Royal Charter in 1836. On Jan. 1, 1907, it was incorporated in the University of London.

LIBRARIES (containing over 388,000 bound vols. and pamphlets): (1) General, including Barlow (Dante), Carnegie (American History and Institns.). Field (Fine Art), Robertson (German), Morris, Ricardo (Polit. Econ.), Rotton, Strong (Oriental), and Whitley Stokes (Celtic) collections, the Library of the Philological Society, and the Bentham MSS.; (2) Science (Main Building), including Ramsay (Chem.) and Graves (Maths.) collections, the books deposited by the London Mathematical Soc., and an exceptionally good collection of

scientific journals; (3) Foster Court Science Library for Botany, Zool., Geog. and Geol., including Grant (Zool.) collection, the Libraries of the Geologists' Association, the Hertfordshire Nat. Hist. Soc. and the Malacological Soc.; (4) Med. Sciences (Thane), including Sharpey (Anat. and Physiol.) collection; (5) Special Arts Libraries for: Archit., Classical Archæol. (Yates), Classics and Anc. Hist., Egyptol. (Edwards), English, French, German, Hist., Italian, Jewish Hist. and Antiq. (Mocatta), Librarianship, Hist. of London, Philos. and Psychol., Phonetics, Scandinavian, incl. Viking Society Library and a general Advanced Arts Library; (6) Law Library, including Blackburn and Quain collections.

MUSEUMS Anat., Archit., Bot., Egypt., Engin., Geol. and Mineral. Vulcanological (Johnston-Lavis Collection), Zool. Three Astron. OBSERVATORIES.

FACULTIES. Arts, Laws, Science, Engineering, Medical Sciences. Deans: Prof. S. R. K. Glanville, Prof. H. F. Jolowicz, Prof. E. J. Salisbury, Prof. R. O. Kapp, Prof. C. Lovatt Evans.

TUTORS. Arts and Laws, L. Solomon (Senior Tutor); Science, D. O. Wood; Engineering, H. E. M. Barlow; Medical Sciences, Prof. J. C. Drummond (acting). Women Students, Edith Goodyear.

COURSES. Degree courses in Arts, Laws, Science, Eng. Medical Prelim. and Intermediate courses. The Arts Faculty includes Slade School of Fine Art, School of Librarianship (v. App. V) and Bartlett School of Archit. The Engineering Faculty includes Depts. of Eng. (incl. Civil, Mech., Munic., Graphics, Surveying, Munic. Hyg.), Elec. Eng., and Chem. Eng. A Dipl. in Eng. is given after a 3 yrs.' course, and Certifs. in Eng.; a Dipl. in Archit. (5 yrs.) and a Certif. in Archit. (3 yrs.); a Certif. in Decoration (3 yrs.); a Dipl. in Chem. Eng. (3 terms); a Certif. in Town Planning (3 terms).

All departments of the College are available for POST-GRADUATE AND RESEARCH WORK, and the respective Professors are always prepared to advise students wishing to undertake research.

DEPARTMENT OF EUGENICS. The Francis Galton Laboratory was founded in 1904 for the study of those agencies under social control that may improve or impair the racial qualities of future generations, either physically or mentally. Open to Research students in Eugenics of both sexes. Research workers can start at any time during the session, but, unless attending the lectures in the Dept., are expected to have a preliminary training either in Biology or Maths. For staff v. *supra*.

Courses of Instruction are given on National Eugenics and cognate subjects, and also short courses of popular lectures. *Fees* (for Research workers): per term, £4 : 14 : 6. A fee of 17 gs. per year admits to the Eugenics Laboratory on all days and to all lectures, as well as to the use of the Library and of the material in the Archives. Fee for use of calculators, 2 gs. per term.

THE BARTLETT SCHOOL OF ARCHITECTURE was established in 1914 by the combination of the Archit. Schools of University and King's Colleges. The Certificate (3 yrs.) and Degree or Diploma (5 yrs.) courses are recognized by the R.I.B.A. as exempting from the R.I.B.A. Intermediate and Final examns. respectively. A Division of Decoration, instituted with the co-operation of the Inc. Institute of British Decorators, provides a 3 yrs.' Certificate Course. The accommodation includes two large Studios, a Museum, a Cast Gallery, a Library, a Lecture Theatre, and a Class Room. Rooms are also provided for the Department of Town Planning instituted in Oct. 1914. The day work is

supplemented by evening classes in design. There is an Atelier for graduates and advanced students. For staff v. *supra*.

FOREIGN STUDENTS are admitted to the College on the same terms as British. They are expected to produce identification papers. In August a *Vacation Course* is held in Phonetics and Spoken English (Director: Prof. Daniel Jones). Men attending that Course can reside at University College Hall, Ealing; women at College Hall, London, W.C.1. Courses in Aspects of British Life and Civilization take place *throughout the session*. The Ramsay Memorial Fellowships in Chemical Science founded by certain Foreign Governments are tenable at Univ. Coll., London, among other places; 4 Fellows are now working there.

FEES. Entrance Registration—1 g.; overseas students—2 gs. Tuition composition fee—Arts, 3 yrs., 98 gs.; Architecture, 5 yrs., 228 gs.; Science, 3 yrs., 98 to 140 gs.; Chem. Engin. (Degree and Diploma), 4 yrs., 188 gs.; Engin., 3 yrs., 168 gs.; Econ., 26 gs. per yr.; Med., for 1st examn., 38 gs., 2nd, 80 gs.; Laws, Day 28 gs., Evening 21 gs. per yr.; Fine Art, 28 gs. per yr.; for Higher Civil Service, 35 gs. per yr. (25 gs. to those who have graduated at the College).

SCHOLARSHIPS, ETC. Annual value, about £4304 (including £1549, Entrance Scholarships). Extra Bursaries amounting to £487 were granted in 1937–38. In addition, Exhibition Bursaries (towards fees) and special remissions amounting to £338 were granted.

RESIDENCE. A Hall for 67 men at Ealing (Warden: A. S. Gilbert, LL.M.), £70 to £90 per session (three College terms). One for 172 women in Malet Street, W.C.1 (Principal: Miss T. B. Alleyne, M.Litt.), 81 to 117 gns. per session.

PUBLICATIONS. *Calendar* (Oct.), 3s. 6d.; *Annual Report*; *University College Magazine*; the various Faculty and Departmental Prospectuses; *Prospectus* of post-graduate courses and arrangements for research.

Galton Laboratory. *Annals of Eugenics*, a Journal for the genetic study of Human Population; *Eugenics Lab. Memoirs* and *Lecture Series* (popular exposition of conclusions); *Treasury of Human Inheritance*.

THE YEAR 1937–38

BENEFACTIONS. Royal Italian Government (per Ambassador), £300 for Italian; Trustees of late Viscount Leverhulme, £750 for Leverhulme Studentships in Chemical Eng.; Rockefeller Foundation, continued grants of £600 in aid of work in Genetics, £500 for research in Physiolog. Chem. and £300 for research in Neuro-Physiology; Chadwick Trustees, £200 for Munic. Eng. and Hygiene, and terra-cotta bust of late Sir Edwin Chadwick; Senate of Univ., Weldon Chair of Biometry, endowed by the late Mrs. F. J. Weldon in memory of her husband, the late Prof. Walter Raphael Weldon, former Prof. of Zool. and Comp. Anat. at the Coll.; the late E. T. Browne, £5000 for establishment of Margaret Browne postgrad. research studentship in Zool., in memory of his wife; Miss Mary Clinton, £3000 (£2825 to form Clinton Fund for provision of apparatus and equipment in Dept. of Elect. Eng.; £175 to endow Clinton Prize in Elect. Eng.) in memory of her brother, the late Prof. W. C. Clinton; the late Mrs. Mildred Platt, £300 to endow annual prizes in Greek in memory of her husband, the late Prof. J. Arthur Platt; the late Sir Andrew Taylor, £200 for establishment of two annual prizes, one in Architecture and one in Fine Art; Tonks Memorial Cttee., bronze portrait bust of the late Prof. Emeritus Henry Tonks, and £414 for endowment of annual prize in Slade

School; Elliot Smith Memorial Cttee., bronze portrait bust of the late Prof. of Anat., Sir Grafton Elliot Smith; Prof. Emeritus Sir Thomas Barlow, portrait of Thomas Campbell, one of the founders of the Coll., by T. Phillips, R.A.

NEW BUILDINGS. Vacant premises in Foster Court equipped for Fac. of Laws, Dept. of Geog., and new library centre for Foster Court Depts. Opening ceremony, 1st Dec. 1937 (v. *infra*).

NEW DEPARTMENTS AND POSTS. Professorship in (i) Architectural Design, (ii) Ancient History, (iii) English Law and (iv) Biometry (Weldon—v. *supra*); Readership in (1) Indian Law, (ii) Chemistry (2); Readership in Embryology in place of Chair. As from 1938–39, the Depts. of Pure and App. Maths. will be amalgamated into one Dept. of Maths.

EXTRA-MURAL WORK. Coll. does not undertake extra-mural work, but accommodation was provided in session 1937–38 for weekly meetings of 5 Univ. Tutorial Classes and of 3 Univ. Extension Courses. Some 7900 persons attended various Public Lectures given in late afternoon or evening.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Among those who delivered Public Lectures at the College were: Prof. F. E. Adcock (Univ. Camb.—Anc. Hist.); Prof. B. P. Babkin (McGill Univ.—Physiol.); Prof. C. H. Best (Univ. Toronto—Physiol.); Dr. E. Braun-Menendez (Inst. Physiol., Fac. Med. Sci., Buenos Aires—Physiol.); Prof. Verner W. Crane (Univ. Michigan—Amer. Hist.); Prof. P. Debye (Kaiser Wilhelm Inst. Physics, Berlin—Physics); Prof. A. De Kleijn (Univ. Amsterdam—Physiol.); Prof. Ludwik Ehrlich (John Casimir Univ., Lwów, Poland—Internat. Law); Prof. Cesare Foligno (Univ. Oxford—Barlow Lectures on Dante); Dr. V. Friedenreich (Univ. Copenhagen—Eugenics); Dr. Hans Grimm (German Acad., Münich); Dr. Max Grünhut (formerly Univ. Bonn—Laws); Prof. G. Lebras (Univ. Paris—Laws); Mr. H. S. Perera (Principal, Govt. Tr. Coll., Colombo—Phonetics); Prof. C. de la Vallée Poussin (Univ. Louvain—Mathematics); Prof. L. L. Schücking (Univ. Leipzig—German Lit.); Prof. Th. Svedberg (Univ. Uppsala—Chemistry); Prof. Homer A. Thompson (Univ. Toronto—Archæol.); Prof. P. E. Verkade (Univ. Rotterdam—Biochem.); Prof. F. R. von Heine-Geldern (Univ. Vienna—Archæol.); Prof. W. P. Webb (Univ. Texas—Amer. Hist.); Prof. F. Weidenreich (formerly Univ. Heidelberg—Anthropol.); Prof. T. Whittemore (Byzantine Inst.—Byzantine Art).

RETIREMENT. Prof. J. P. Hill (Embryology).

RESIGNATIONS. Prof. N. F. Hall (Pol. Econ.), now Dir. of Nat. Inst. of Econ. and Social Research; Prof. J. H. Gaddum (Pharmacol.), now Prof. at Coll. of Pharmaceut. Soc. of Gt. Brit.; Mrs. Elsie Blackman (Sr. Lectr. Engl.); Mr. J. R. Firth (Sr. Lectr. Phonetics), now at Sch. of Oriental Stud.; Dr. J. Neyman (Reader, Statistics), now at Univ. California.

DEATHS.—Sir Andrew T. Taylor, Chairman, Managing Sub-Cttee. (since 1915) and of Arch. Educn. and Slade Cttees.; Hon. Fellow Prof. L. N. G. Filon, Goldsmid Prof. of App. Maths. and Mechs. since 1912, Dir. of Observatories; Miss Lilias E. Armstrong (Mrs. Simon Boyanus), Reader in Phonetics.

IMPORTANT EVENTS. Private visit of H.M. Queen Mary to see Mocatta Lib. and Museum (9th Feb. 1938); Opening in Foster Court of new premises for (*a*) Laws, (*b*) Geog., (*c*) Foster Court Lib. Centre, (*d*) Cast Gallery for Archæol. and (*e*) Junior Lab. for Physics, by Chairman of Univ. Court, Rt. Hon. Lord Macmillan (1st Dec. 1937); Anniversary of granting of Royal Charter to "University College, London," by H.M. King William IV (28th Nov. 1836), Reception by Provost (26th Nov. 1937); Anniversary of laying of foundation-

stone of College by H.R.H. the Duke of Sussex (30th Apr. 1827), Fellows' Annual Dinner; Presentation of Henry Tonks Memorial (25th Nov. 1937); Presentation of bust of the late Prof. Sir Grafton Elliot Smith (3rd May 1938) [v. "Benefactions"]; Lord Northcliffe Lectures delivered Oct.–Nov. 1937, by Mr. Osbert Sitwell, Miss Edith Sitwell and Mr. Sacheverell Sitwell on "Phases of National Genius"; Sixth Rickman Godlee Lecture delivered by Very Rev. Dr. W. R. Inge (Nov. 1937) on "The Price of Progress"; Lucien Wolf Memorial Lecture of Jewish Hist. Soc, delivered in Great Hall (Dec. 1937) by Rt. Hon. Lord Melchett, the Viscount Sankey presiding; 26th Ann. Conference of Educl. Assocns. (Jan. 1938) held at College; 14th Ann. Week of *Little Plays of St. Francis* (Laurence Housman), by Coll. Dramatic Soc.; Foundation Week Celebrations (Mar. 1938), Oration by Capt. Liddell Hart.

STUDENTS. Full-time: Total, 2083 (including 292 Graduates). Part-time: Total, 1077 (including 275 Graduates).

DEGREES OBTAINED. B.A., 140; M.A., 12; D.Lit., 1; B.A. (Arch.), 6; LL.B., 13; LL.M., 2; B.Sc., 84; M.Sc., 19; B.Sc. (Econ.), 14; M.Sc. (Econ.), 5; B.Sc. (Eng.), 22; M.Sc. (Eng.), 1; Ph.D. (Arts), 8; Ph.D. (Sci.), 37; Ph.D. (Eng.), 1; D.Sc., 3.

UNIVERSITY OF LONDON, KING'S COLLEGE

Founded 1829

Strand, W.C.2
Telephone : Temple Bar 5651.

CHAIRMAN OF THE DELEGACY—LORD BLANESBURGH, G.B.E., M.A., LL.D. Aberd.

VICE-CHAIRMAN—A. D. POWER.

TREASURER—Sir EDWARD TROUP, K.C.B., K.C.V.O., LL.D. Aberd.

PRINCIPAL—W. R. HALLIDAY, M.A. Ox., LL.D. Glas.

SECRETARY—S. T. SHOVELTON, M.A. Ox.

LIBRARIAN—R. HUTTON, M.A. Liv.

TEACHING STAFF

Anatomy, Descrip. and Surgical

Nicol, T., D.Sc. Glas. and Lond., M.D. Glas., F.R.C.S.E. Prof.
Stibbe, E. P., L.R.C.P., F.R.C.S. Prof.
Wakeley, C. P. G., D.Sc., F.R.C.S. Lectr.
6 Hon. Demrs., 3 Demrs.

Assyriology

Gadd, C. J., M.A. Ox. Hon. Lectr.
Smith, S., M.A. Camb. Hon. Lectr.

Bibliography, v. English

Biochemistry, v. Physiology

Biology, v. Zool.

Botany and Vegetable Biology

Gates, R. Ruggles, M.A., LL.D. Mt. Allison, B.Sc. McG., Ph.D. Chic., D.Sc., F.R.S. Prof.
Penston, Norah L., B.A., D.Phil. Ox., F.L.S. Lectr.
Dobbs, C. G., B.Sc., Ph.D. Asst. Lectr.
Spearing, J. K., B.Sc., Ph.D. Asst. Lectr.
2 Demrs.

Chemical Engineering

Members of staff of Chemical and Engineering Depts.

Chemistry

Allmand, A. J., D.Sc. Liv., F.R.S. Daniell Prof.
Bennett, G. M., M.A., Sc.D. Camb., Ph.D., F.I.C. Prof.
Cremer, H. W., M.Sc., F.I.C., M.I.Chem.E. Senr. Lectr.
Salmon, C. S., M.Sc. Brist. Senr. Lectr.
McClelland, E. W., D.Sc. Belf., Ph.D. Durh., A.I.C. Lectr.
Dolley, L. G. F., B.Sc., Ph.D. Lectr.
Ward, L. Singlehurst, B.Sc. Lectr.
Style, D. W. G., B.Sc., Ph.D. Lectr.
Fairbourne, A., M.A. Ox., D.Sc. Manc., F.I.C. Hon. Lectr.
Simpson, J. C. E., B.Sc., Ph.D. Liv. Asst. Lectr.
2 Demrs.

Classics, v. also History

Thomson, J. A. K., M.A. Aberd., B.A. Ox. Prof.
Knight, Clara M., D.Lit. Reader.
Hall, E. B., M.A. Senr. Lectr.

Handford, S. A., M.A. Ox. Lectr.
Paul, Agnes S., M.A., B.D. Lectr.

Education

Cavenagh, F. A., M.A. Prof.
Young, G. W., M.A. Camb. Reader.
Titley, A. F., B.Sc. Brist., D.Phil. Ox. Sr. Lectr.
Bell, Clarissa C., M.A. Lectr.
Beales, A. C. F., M.A. Lectr.
Blackwell, Mrs. Annie M., B.Sc. Lectr.
Brown, P. P., B.A. Ox. Lectr.
Bearman, Mrs. Ethel C., M.A. Ox. Lectr.
3 Supervisors.
2 Physical Training Instructors

Engineering, Civil and Mechanical

Lobban, C. H., D.Sc. (Eng.) Glas. (Civil E.) Prof.
Davies, S. J., M.Sc. Durh., Ph.D., D.Sc. (Mech. E.) Prof.
Giffen, E., M.Sc. Belf., Ph.D. (Mech. E.) Reader.
Lectrs.
Beaufoy, L. A., M.Sc. (Eng.), Ph.D.
Ross, A. D., B.Sc. (Eng.), Ph.D. Edin.
Thomson, J. L., B.A. Camb., B.Sc. Manc.
Taylor, H. C., B.Sc. (Eng.) Asst. Lectr.

Engineering, Electrical

Catterson-Smith, J. K., M.Eng. Liv., M.I.E.E. Siemens Prof.
Clarke, H. M., M.Sc. Sr. Lectr.
Lee, B. C., B.Sc. Lectr.

English

Reed, A. W., M.A., D.Lit. (to 31.7.39) Prof.
Harrison, G. B., M.A. Camb., Ph.D. (E. Lit.) Reader.
Ingram, E. Gwendolen, M.A. (E. Lang.) Senr. Lectr.
Isaacs, J., M.A. Ox. (E.Lit.) Lectr.
Garmonsway, G. N., M.A. Camb. (E. Lang. and Lit.) Lectr.
McKerrow, R. B., Litt.D. Camb., F.B.A. (E. Bibliography) Hon. Lectr.
Mack, Frances M., B.A., Ph.D. (E. Lang. and Lit.) Lectr.
Barrett, W. P., M.A., Ph.D. Camb. (E. Lit.) Lectr.
Fulford, R. T. B., B.A. Ox. Asst. Lectr.
2 Assts.

French

Saurat, D., D. ès L. Paris Prof.
Stone, Louise W., M.A. (Romance Philol.) Reader.
Jones, R. A., M.C., M.A. Sr. Lectr.
Spink, J. S., M.A. Leeds, D. de l'U. Paris Lectr.
Vigne, J., Agrégé de l'Univ. Lectr.
Landers, W. M., D. de l'U. Grenoble, B.A. Asst. Lectr.
3 Assts.

Geography

The Profs. of Botany, Geol., Zool. (in conjunction with staff of London School of Economics).
Wood, H. J., B.Sc., Ph.D. (Historical Geog.) Lectr.
Wooldridge, S. W., D.Sc., F.G.S. Lectr.
Kirkaldy, J. F., M.S., F.G.S. Asst. Lectr.
Beaufoy, L. A., M.Sc. (Eng.), Ph.D. (Engin.) Lectr.

Geology

Gordon, W. T., M.A. Camb., M.A., D.Sc. Edin., F.G.S. Prof.
Wells, A. K., D.Sc., F.G.S. Reader.
Wooldridge, S. W., D.Sc., F.G.S. Lectr.
Kirkaldy, J. F., M.Sc., F.G.S. Asst. Lectr.

German

Norman, F., M.A. Prof.

Rose, W., M.A. Birm., Ph.D. Hon. Lectr.
Stuart, Mrs. Hannah S. M., B.A., Ph.D. Lectr.
Mainland, W. F., M.A. Edin. Lectr.
2 Assts.

Greek, Modern, and Byzantine Hist.

Marshall, F. H., M.A. Camb. Koraes Prof.

Hebrew

Hollis, Rev. F. J., D.D. Lectr.

History, v. also Greek

Williams, C. H., M.A. Camb. Prof.
Harlow, V. T., M.A., D.Litt. Ox. Rhodes Prof. of Imperial H.
Scullard, H. H., M.A. Camb., Ph.D. (Ancient H.) Reader.
Jenkinson, Hilary, M.A. Camb., F.S.A. (Diplomatic and English Archives) Reader.
Cronne, H. A., M.A. Belf. and Ox. (Palæog.) Lectr.
Steed, H. Wickham, LL.D. Strasb. (Central Europ. Hist.) Lectr.
Howard, C. H. D., B.A. Ox. Asst. Lectr.
Latham, R. C., B.A. Camb. Asst. Lectr.
Shaw, I. P., B.A. Ox. Asst. Lectr.
1 Asst.

Italian

Guercio, F. M., B.A. Liv. Lectr.

Journalism

Harrison, G. B., M.A. Camb., Ph.D. Tutor.
Clarke, Tom (Practical J.) Director.
1 Asst.

Law, v. p. 223

Mathematics, Pure and Applied

Temple, G., Ph.D., D.Sc. Prof.
Semple, J. G., M.A. Belf., Ph.D. Camb. Prof.
McVittie, G. C., M.A. Edin., Ph.D. Camb. Reader.
Henderson, J., M.A., B.Sc. Edin., Ph.D. Sr. Lectr.
Shovelton, S. T., M.A. Ox. Lectr.
Combridge, J. T., M.A. Camb., M.Sc. Lectr.
Edwards, B. A., M.Sc. Wales. Lectr.
Davies, E. T., M.Sc. Wales, Ph.D. Rome and Lond. Lectr.
Ferraro, V. C. A., B.Sc., Ph.D. Lectr.
Lilley, S , M.Sc. Belf. Asst. Lectr.
Todd, J., B.Sc. Belf. Asst Lectr.
2 Assts.

Military Studies

Mathew-Lannowe, Brig.-Gen. E.B., C.M.G., D.S.O. Reader.
Bayley, Col. A. G., C.B.E., D.S.O. Lectr.
Lachlan, Major L. A. W. B. Lectr.

Palæography, v. Hist.

Pharmacology, v. Physiology

Philology, v. French

Philosophy, v. also Psych.

Hallett, H. F., M.A., D.Litt. Edin. Prof.
Hanson, Rev. Preb. R., M.A. Ox., B.D. (P. of Religion) Lectr.

Physics

Ellis, C. D., B.A., Ph.D. Camb., F.R.S. Wheatstone Prof.
Richardson, O. W., M.A. Camb., D.Sc., F.R.S. Yarrow Research Prof. of the Royal Society.
Flint, H. T., D.Sc. Birm. and Lond., Ph.D. Reader.
Oatley, C. W., M.A., M.Sc. Lectr.
Champion, F. C., M.A. Camb., Ph.D. Lectr.
Worsnop, B. L., B.Sc., Ph.D. (Radiol.) Sp. Lectr.
Fisher, Joseph W., B.Sc., Ph.D. Hon. Lectr

Chapman, F. W., M.Sc., Ph.D. Asst. Lectr.
May, A. N., B.A., Ph.D. Camb. Asst. Lectr.
6 Demrs.

Physiology, Biochemistry and Pharmacology

McDowall, R. J. S., D.Sc., M.D. Edin., F.R.C.P. Edin. Prof.
Robson, Wm., Ph.D. Edin., D.Sc. (Bio-Chem.) Reader.
Hewitt, J. A., Ph.D. St. And., D.Sc., A.I.C. Senr. Lectr.
Thompson, J. H., B.Sc. Lectr.
Dunlop, H. A., M.Sc., M.D., M.R.C.S., F.R.C.P. (Pharmacol.) Lectr.

Hon. Lectrs.

Negus, V. E., M.B., M.S., F.R.C.S. (Laryngology).
Pickering, J. W., D.Sc. (Hæmatol.).
Plummer, N. S., M.D., M.R.C.S., L.R.C.P. (Human Physiol.).
Bellerby, C. W., M.A. Camb. (Comparative Physiol.).
5 Demrs.

Portuguese

Rodrigues, A. A., M.A. Ox., L.L. Coimbra Lectr.
Gomes, H. de B. Lectr.

Psychology

Aveling, F. A. P., M.C., Ph.D. Louv., D.Sc., D.Lit. Prof.
Hadfield, J. A., M.A. Ox., M.B., Ch.B. Edin. Lectr.
Bartlett, R. J., M.Sc., A.R.C.S. Lectr.
1 Hon. Demr., 1 Demr., 1 Hon. Research Asst.

Romance, v. French

Spanish Studies

Pastor, A., B.Litt. Ox., D.Phil. Madrid Cervantes Prof.
Perry, Janet, B.A. N.U.I., M.A. Lectr.
Carey, J. R., B.A. Lectr.
Jameson, A. K., M.A. Edin., Ph.D. Asst. Lectr.
Humphreys, R. A., M.A., Ph.D. Camb. (Spanish Hist.) Hon. Lectr.
1 Asst.

Theology, v. p. 199

Zoology and Animal Biology

Mackinnon, Doris L., D.Sc. Aberd. Prof.
Tribe, Margaret, D.Sc. Lectr.
Dawes, B., D.Sc., A.R.C.S., D.I.C. Lectr.
Allanson, Marjorie, B.Sc., Ph.D. Asst. Lectr.
1 Hon. Demr., 2 Demrs.

Gilbart Lecturer in Banking

1938–39—Prof. R. S. T. Chorley, M.A. Ox.

GENERAL INFORMATION

Founded by Royal Charter in 1829 for " instruction in the various branches of Literature and Science and the doctrines and duties of Christianity," King's College consisted at first of a School and Departments of General Literature, Science, and Medicine, to which were added successively Engineering, Theological, and Oriental Depts. The Hospital was built in 1839 ; the Evening Classes were started in 1856, and a Women's Dept. in 1881. In 1910 the College School became a separate Corporation, the Hospl. and Advanced Med. School were made independent, the other Depts. (except the Theological) doing work of University standard were incorporated in the Univ. of London, while the Council remained the governing body of the Theol. Dept., which became a School of the Univ. In 1915 the Arts and Science Departments of King's College for Women, previously housed in South Kensington, were

transferred to the buildings of King's College, and the Household and Social Science Department to new buildings on Campden Hill. The Dept. of Household and Social Science became a separate instn. in 1928 under the title of King's Coll. of Household and Social Science, v. *infra*. In 1917 the Oriental Dept. was transferred to the new School of Oriental Studies. The School of Slavonic and East European Studies, founded in 1915, was constituted a separate department of the Univ. as from Aug. 1, 1932, v. *infra*. The Halley Stewart Laboratories of Physics Research, 30 Chesterford Gardens, Hampstead, were formally opened as a department of the College on May 4, 1933.

LIBRARIES (in all 88,000 vols.) In addition to the General Library there are the following Special and Departmental Libraries: (1) The Marsden (Philol.), (2) Wheatstone (Electr. and kindred subjects), (3) Skeat and Furnivall (Philol. and Engl. Lit.), (4) Ronald Burrows Library (Mediæval and Mod. Greek), (5) Frida Mond (Goethe and German Lit.), (6) T. R. R. Stebbing (Zool.), (7) F. D. Maurice Collection, (8) The Box Library (Semitic Studies). There are also the following Departmental Libraries: 1. Anat. 2. Bot. 3. Chem. Engin. 4. Chem. 5. Classics. 6. Educn. 7. Elect. Engin. 8. Engin. (Civ. and Mech.). 9. French. 10. Geog. 11. Geol. 12. German. 13. Hist. 14. Maths. 15. Pharmacol. 16. Physics. 17. Physiol. 18. Psychol. 19. Spanish. 20. Zool.

LABORATORIES AND MUSEUMS. Anat. (Hughes Collection), Comp. Anat., Biol., Bot., Chem., Chem. Engin., Engin., Geol. and Mineral., Mat. Med., Metall., Pharmacol., Physics, Physiol. (including Bio-Chem. and Histol.), Psych., Zool.

FACULTIES. Arts, Laws, Natural Science, Medical Science, Engineering, Theology. Deans: Prof. A. W. Reed (English), Prof. H. Potter (English Law), Prof. G. Temple (Maths.), Prof. T. Nicol (Anat.), Prof. J. K. Catterson-Smith (Engin.), Rev. Preb. R. Hanson, M.A., B.D. (Theol.).

Evening Class Department (classes in connexion with faculties of Theology, Arts, and Law). Dean, Prof. W. T. Gordon (Geol.).

TUTOR TO WOMEN STUDENTS. Dorothy Brittain, M.A. Manc.

DEGREE COURSES in Arts, Laws, Science, Engineering, and Theology. Prelim. and Interm. courses in Medicine, and courses for the First and Second Examns. for Dental Degrees. Day Training College under the Board of Education. Dept. for training secondary Teachers (men and women). Dept. of Journalism, in which students are prepared for the Journalism Diploma of the Univ. of London. Students are also prepared for the Univ. Diploma in English Lang. and Lit., the Academic Diploma in Psychology, and the Academic Diploma in Geography.

Engineering students receive preliminary workshop training in their first year. Facilities are provided for spending half of each summer vacation in engineering works. Those taking 4 years' course spend part of each year (18 months in all) in practical training.

OTHER COURSES. Associateship of College is open to men and women who have graduated after 3-yrs. course and have also attended prescribed course in Divinity. Diploma course in Engineering, ordinarily 3 yrs. Certificates in Palæography, Italian, Hebrew, Syriac, Spanish, Portuguese and Applied Psychol.

ADVANCED STUDY. Special facilities in English (including Bibliography), History (especially Mediæval, Colonial, and Ancient), Spanish, Portuguese, Modern Greek, Education, and several Depts. of Science. 1-yr. postgraduate

course in Chem. Eng. leading to Certificate. Object of course is to train student in scientific principles underlying methods of carrying out chemical processes on technical scale by teaching him to apply principles of Physics, Physical Chemistry and Engineering to general methods and apparatus employed in industry. Ample facilities for investigation of industrial problems are provided.

FEES. Tuition per Session, including fees for games, library, and union society: Arts, 30 to 37 gs.; Laws, 21 to 28 gs.; Science, 35 to 50 gs.; Med., £40 to £44; Engin., 48 to 60 gs.

SCHOLARSHIPS. For graduates: In Arts 5, aggregate value £530 p.a.; Natural Science 5, ag. value £690 p.a.; Medical Science 4, ag. value £900 p. a.; Theology 1, ag. value £140 p.a.

ENTRANCE SCHOLARSHIPS in all Faculties. Five of £20 p.a., open to matriculated students of the Univ., on condition of their reading for the B.D.

For open Postgrad. Exhibitions, etc., v. Appendix II.

RESIDENCE. Three hostels, one Theol. for 72 men (Warden: Rev. O. Hardman, D D.), one general for 80 men (Warden: F. F. Cartwright, M.R.C.S., L.R C P.), and one for 55 women (Warden: Miss P. Boys-Smith, M.A.). These Hostels are recognized by the Board of Education.

A REGISTER OF FORMER STUDENTS is maintained, in which changes of address are recorded without charge.

PUBLICATIONS. Separate Syllabus for each Faculty post free. *Calendar*, 4s. 6d. post free; K.C. *Review*; Union Society *Handbook*; *King's Engineer*; *King's Counsel*; Old Students' Association *Year Book*.

THE YEAR 1937–38

BENEFACTIONS. Anon., £1000 for helping cases of financial hardship among undergraduates and for assisting research students. Sir Halley Stewart Trust, renewal of lease of 30 Chesterford Gardens, Hampstead (physics research labs.), for period of 5 yrs. and payment of grant of £250 p.a. during extended period of lease. Bovril, Ltd., continuation for a further yr. of funds for 2 Research Studentships in Physiology. Department of Intellectual Cooperation of Brazilian Ministry of Foreign Affairs, Brazilian books. Anon., £200 to Library, chiefly for bookbinding. Messrs. Carless, Capel and Leonard, Armstrong engine for fuel testing in Chemical Engineering Laboratory. Weston Electrical Instrument Co., Ltd., specimen apparatus for use in Dept. of Electrical Engineering. Mr. F. G. Bell, 20 guineas to New Library fund. Mrs. Sommerville, mahogany bookcase, formerly the property of Prof. David Sommerville. History Students, books to the value of £10 in memory of the late Dr. Pelham H. Box, Lecturer in History. Anon., a Challenge Bowl for Athletics, in memory of Denis Ripley Broadbent, a member of King's College Rugby Football Team, 1899–1900.

DEVELOPMENTS. Permission of Senate has been received for holding annually in Sept. a second Special Inter. Examn. in Engineering. The College has undertaken annually to admit, without charge for registration or tuition fees, a selected holder of a British Council scholarship for postgraduate study in English, History, or Chemical Engineering.

CHANGES IN REGULATIONS. Changes have been made in regulations for

College Entrance Scholarships, by which an English Essay has been made compulsory for all candidates in all Faculties and the number of required subjects reduced.

EXTRA-MURAL WORK. The College does not undertake extra-mural work, but a number of Public Lectures are given in the College; these were attended in 1937–38 by about 15,000 persons.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. The following lectured in the College: Rev. Claude Jenkins (Canon of Christ Church and Regius Prof. of Ecclesiastical History, Univ. of Oxford), "Frederick Denison Maurice and the New Reformation"; Prof. J. L. Myres (Wykeham Prof. of Ancient History, Univ. of Oxford), "Mediæval Cyprus"; Dr. E. L. Stahl (Univ. of Oxford), "Rilke's Elegies"; Prof. A. J. B. Wace (Laurence Prof. of Classical Archæol., Univ. of Cambridge), "Greek Café Pictures"; Dr. E. C. S. Wade (Fellow and Tutor, Gonville and Caius College, Cambridge), "The Law of Public Meetings"; Prof. James Chadwick (Lyon Jones Prof. of Physics, Univ. of Liverpool), "The Artificial Transmutation of Matter"; Prof. John Baillie (Prof. of Divinity, Univ. of Edinburgh), "The Nature of our Knowledge of God"; Rev. T. H. Robinson (Prof. of Semitic Languages, Univ. Coll., Cardiff), "The Christian Use of the Psalms"; M. Georges Duhamel (Académie française), "La Vie et l'œuvre d'un grand savant: Charles Nicolle," and "Nos lectures romanesques"; Prof. Pol Gerard (Université libre de Bruxelles), "Comparative Histophysiology of the Vertebrate Nephron"; Prof. Dr. K. R. Gallas (Univ. of Amsterdam), "Racine et nous étrangers du XX^e siècle"; Prof. Th. J. Stomps (Univ. of Amsterdam), "Recent Developments of the Mutation Theory."

VISITS BY MEMBERS OF THE STAFF. Prof. R. R. Gates (Bot.) attended the Indian Science Congress in Calcutta, at which he presented papers on chromosome structure, blood-groups and the concept of species. He also gave a series of 8 lectures on various aspects of genetics, cytology and human heredity, at institutions in Southern India and Ceylon. Prof. W. T. Gordon (Geol.) attended the Indian Science Congress in Calcutta. Prof. R. J. S. McDowall (Physiol.) attended the International Congress of Physiology in Zurich. Prof. F. H. Marshall (Modern Greek) lectured at Univ. Coll., Southampton. Dr. G. B. Harrison (Eng. Lit.) organized lectures in connexion with conference at Shakespeare Memorial Theatre, Stratford-on-Avon. J. Isaacs (Eng.) gave course of lectures in the Hebrew Univ., Jerusalem. C. P. G. Wakeley (Anat.) examined in Anatomy for Primary Fellowship of Royal College of Surgeons of England, in Australia, India and Egypt; he lectured before the Medical Society of Colombo on "The Treatment of Acute and Chronic Cholecystitis," and before the New South Wales Postgraduate Society, University of Sydney, on "The Problem of the Gall Bladder."

RETIREMENTS. Prof. A. P. Newton, Rhodes Prof. of Imperial History since 1920. Prof. S. Smiles, Daniell Prof. of General and Inorganic Chemistry since 1920.

RESIGNATIONS. S. Breglia (Italian), appointed to Univ. of Cambridge; Dr. W. E. Williams (Physics); Alwyne Compton (Applied Anatomy); Brian Cooper (Civil and Mech. Engin.), appointed to Univ. of Cambridge.

DEATHS. Sir Raymond Crawfurd, a Fellow and former student of the College. Sir John Dewrance, G.B.E., a Fellow of the College, past President of the Old Students' Association and a member of the Council of the College, 1932–35. Sir John Snell, G.B.E., a Fellow of the College, a former student

and a member of the Centenary Commemoration Committee. Mr. Herbert Ward, C.B.E., Hon. Lectr. in Educn. since 1927.

STUDENTS. Full-time day students working for a degree or diploma (including Theology, 225): 1853, including 248 graduates. Part-time (including Theology, 100); 668, including 119 graduates.

DEGREES OBTAINED. B.D., 8; B.A., 134; M.A., 12; LL.B., 42; B.Sc., 99; M.Sc., 8; D.Sc., 2; B.Sc. (Eng.), 31; M.Sc. (Eng.), 1; Ph.D. (Arts), 7; Ph.D. (Science), 21; Ph.D. (Eng.), 3; Diplomas, 159.

UNIVERSITY INSTITUTES AND DEPARTMENTS

UNIVERSITY OF LONDON, INSTITUTE OF EDUCATION

(*Formerly* LONDON DAY TRAINING COLLEGE)

Founded 1902

Postal Address—University of London Institute of Education, W.C.1.
Telephone: Museum 5053.

DIRECTOR AND ADVISER TO OVERSEA STUDENTS—Prof. F. CLARKE, M.A. Ox.

WARDEN—Miss M. B. GWYNNE, M.A. Camb.

SENIOR TUTOR—P. GURREY, B.A., Ph.D.

SCHOOLS RELATIONS OFFICER—A. S. HARRISON, M.Sc. Manc.

SECRETARY—Miss G. M. WACEY.

LIBRARIAN—Miss G. DE MONTMORENCY.

TEACHING STAFF

The Director Prof.
Hamley, H. R., M.A., M.Sc. Melb. Hd. of Dept. of Higher Degrees and Research. Prof.

Lecturers

Clarke, A. Fielding, M.A. Ox.
Dussek, O. T., B.A.
Fleming, Charlotte M., M.A., Ed.B., Ph.D. Glas.
The Senr. Tutor
The Warden
Isaacs, Mrs. Susan, M.A. Camb., D.Sc. Hd. of Child Development Dept.
Jeffreys, M. V. C., M.A. Ox.
Mumford, W. Bryant, M.A. Camb., Ph.D. Tor. Hd. of Colonial Dept.
Lauwerys, J. A., B.Sc.
Scarfe, N. V., M.A.
Shillan, D., M.A. Camb.
Smith, C. E., M.A., D.Paed. Tor., B.A.
Smith, F. J. Kinchin, M.A. Ox.
Calthrop, Margaret G., Mod. Lang. Tripos.
Parker, B. N., M.A.
Schairer, R., D.L. Tübingen. Hd. of Dept. of International Studies.
Taylor, A. Clifton, M.A. Camb.
Warden, Winifred M., M.Sc. Birm.
Whaite, H. C., Slade Dip.
6 Instrs. in Handwork, 1 in Music, 1 in Voice Production, 2 in Phys. Tr.; 10 Supervisors of School Practice.

GENERAL INFORMATION

London Day Training College was founded by the London County Council in 1902 as an institution in connexion with the Univ. working under the Regulations of the Board of Education for the Training of Teachers. The first Principal (1902–22) was Prof. (later Sir) John Adams. From 1909 to 1932 the Coll. was a School of the Univ. in Pedagogy, and as such was governed by a College Council composed equally of representatives of the L.C.C. and of the Senate. On Sept. 1, 1932, as the result of an agreement between the Board of Education, the L.C.C., and the Univ., the Coll. was transferred to the educational and financial control of the Univ., and its title was changed to "University of London, Institute of Education." The Institute is administered as a "central activity" of the Univ. by a Delegacy appointed by the Senate, and composed of representatives of that body, of the L.C.C. and of the teaching staff, together with certain co-opted members. In August 1938 the Institute was transferred to the new building on the Bloomsbury site provided by a special grant from the Council to the Univ.

Students are trained under the Regulations for the Training of Teachers (H.M. Stationery Office, Kingsway, W.C.2) for Elem. and Secondary Schools. Undergraduates can take a 4 yrs.' course so as to combine B.A., B.Sc., or B.Sc.Econ. courses (taken at other Colls.) with Professional training. One who has already graduated may devote himself continuously for a year to the theory, etc., of Educn. and obtain the Univ. diploma.

FEES AND COURSES. "Recognized" students taking 4-yr. or 1-yr. course under Regulations for Training of Teachers, entrance fee only, £20; private students taking 1-yr. course, £45; special Colonial 1-yr. course, £55; 1-yr. course for Teachers of Art, £30; 1-yr. course in Dept. of Child Development, £31 : 10s. In addition, Union and Library Fee of £2 : 10s. for students taking any of above courses. M.A. (Education) 2-3 yrs., inclusive fee for course, £22 : 1s. plus £1 : 1s. registration. Ph.D. (Education) 2-4 yrs., inclusive fee for course £44 : 2s. plus £1 : 1s. registration.

An Associateship of the Institute has recently been established and may be awarded to students from overseas, who return to their own countries, upon completing, as students of the Institute, at least one full session of work other than for a diploma or higher degree in education. The fee for the course is 21 gs. plus £2 : 10s. Union and Library fee. Applications for the award of the Associateship must be received not later than 1st December in the session in which they are to be considered. A fee of 3 gs. must accompany each application.

PUBLICATIONS. The *Yearbook of Education* (pubd. by Messrs. Evans Brothers in assn. with the Institute), 35s. *Studies and Reports*: No. I—"Educational Problems in the Far East and the Near East," by C. H. Becker. No. II—"The Outlook in Education," by I. L. Kandel. No. III—"Tendencies in University Education," by Edwin Deller. No. IV—"The Yao Tribe, Their Culture and Education," by Benno Heckel and "Arts and Crafts in the Training of Bemba Youth," by Griffith Quick. No. V—"Quebec and South Africa: A Study in Cultural Adjustment," by F. Clarke. No. VI—"John Adams: A Lecture in His Memory," by Sir Michael Sadler. No. VII—"Some Aspects of Indian Education, Past, Present, and Future," by Sir Philip Hartog. No. VIII—"Thomas George Tibbey: A Lecture in His Memory," by P. B. Ballard. No. IX—"Some Aspects of Education in Tropical Africa," by E. R. J. Hussey, H. S. Scott, and the Right Rev. J. J. Willis. No. X—"Education for Citizenship," by Ernest Barker. No. XI—"Free, Compulsory, and Secular: A Critical Estimate of Australian Education," by

G. V. Portus. No. XII—" Education and Revolution in Spain," by José Castillejo. No. XIII—" Some Suggestions towards a Revised Philosophy of Education," by Prof. John Macdonald. Obtainable from the Institute, price 1s. each; Nos. I, IV, VII, IX and XI, 2s. each. In conjunction with the Home and School Council of Great Britain, a series of pamphlets entitled *Concerning Children*, 3d. each.

THE YEAR 1937–38

BENEFACTIONS. Mrs. Harry Sacher, 2 fellowships of £200 each, to enable selected Jewish teachers in Palestine to attend course on Child Development and other courses in the Institute. The May Esther Bedford Fund, increased contributions towards equipment of Colonial Dept. and expansion of its activities. The Rhodes Trust, continued grant of £250 to assist work of Division for the Teaching of English as a Foreign Language. Carnegie Corporation of New York, annual grant of $22,500 for extension of facilities for students from oversea and strengthening of relations with oversea countries. College of Preceptors, grant of 50 guineas to provide the Joseph Payne Series of Lectures.

NEW BUILDINGS. The Institute transferred during August 1938, from its building in Southampton Row, W.C.1, to large and well equipped premises on the Bloomsbury University site.

NEW DEPARTMENTS. Dept. of International Studies.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Joseph Payne Lectures: M. A. Desclos (Directeur, Collège Franco-Britannique, Univ. of Paris), " Recent Developments in Educational Thought and Practice in France " (3 lectures). Mr Manfred Björkquist (Rector of the Sigtuna Foundation, Sweden), " The Training of Youth and Voluntary Educational Movements in Present-day Sweden " (3 lectures). John Adams Lecture: Prof. John Macdonald (Univ. of Alberta), the fifth John Adams Lecture on " Some Suggestions towards a Revised Philosophy of Education."

STUDENTS. Full-time: 318, including 287 graduates. Part-time: 257, including 245 graduates.

DEGREES OBTAINED. M.A. (Educ.), 8 (Part I.), 2 (Part II.), 5 (both Parts); Ph.D. (Educ.), 4; Teacher's Diploma, 220.

UNIVERSITY OF LONDON, COURTAULD INSTITUTE OF ART

Founded 1932

20 Portman Square, London, W.1.
Telephone: Welbeck 1388–9

CHAIRMAN OF MANAGEMENT COMMITTEE—SAMUEL COURTAULD, D.Lit., J.P.

DIRECTOR—T. S. R. BOASE, M.C., M.A. Ox.

DEPUTY DIRECTOR—.....

REGISTRAR—H. D. D. STREATFEILD, B.A.

LIBRARIAN—RHODA WELSFORD.

TEACHING STAFF

Art, History of

The Director Prof.
..... Reader.
Blunt, A. F., B.A. Camb. Teacher.

Chinese Art and Archæology

Yetts, W. P., O.B.E., D.Lit., M.R.C.S. Prof.

Byzantine and Near Eastern Art

Rice, Prof. D. Talbot, M.A., B.Sc. Ox. . Lectr.

Indian Art

Kranrisch, Stella, Ph.D. Vienna Lectr.

Technology of Art, History of

Thompson, D. V., M.A. Harvard Prof.
Pflaumer, R. E., B.S., M.A. Princeton Asst.
Ruhemann, H. Tech. Consultant

GENERAL INFORMATION

Opened to students Oct. 1933, as the result of a gift of £100,000 for buildings and partial endowment by Mr. Samuel Courtauld, and of gifts by Sir Joseph Duveen and Sir Herbert Cook. Other benefactions include a gift by Mr. J. G. Graves and the bequest of his estate by the late Mr. Norman Wilkinson of Four Oaks, with which a Scientific Dept. and Laboratory has been established. A Univ. Dept. concerned with teaching and research in the History of Art, including both European and Oriental. Courses are provided leading to B.A. Hons. in History of Art and to M.A. and Ph.D. in History of Art and in Archæology, also to a Diploma in both subjects. Research students also accepted, and a number of lectures are given to which the general public are admitted. The students are mainly graduates. The present headquarters of the Institute, one of the finest examples of the work of the Brothers Adam, is also a gift from Mr. Courtauld. When the headquarters of the Institute are moved to Bloomsbury, 20 Portman Sq. will remain the official residence of the Director, and a centre for special studies.

FEES. For full-time students, £40 p.a. Public lectures, single lectures, or short courses, 2s. 6d. each lecture. Composition fee to cover all lectures, £5; and if the use of the libraries is included, £8.

LIBRARY. 12,000 vols., and Conway Library of reproductions. The Witt Library at 32 Portman Square gives special facilities to students.

THE YEAR 1937–38

BENEFACTIONS. Mr. Samuel Courtauld, a further generous benefaction to funds of Institute. Mr. G. Eumorfopoulos, reproductions of Oriental Art.

CHANGES IN REGULATIONS. B.A. Hons. in Archæol. abolished, and syllabus for B.A. Hons. and Academic Diploma in History of Art revised, as also regulations for admission to the latter. An Institute Certificate, to be awarded on an examination based on one year's attendance at the public lectures, instituted.

NEW POST. Professorship in the History of the Technology of Art.

RESIGNATION. S. Rees Jones, Asst. in Scientific Dept.

STUDENTS. Full-time, 43, including 17 graduates. Part-time, 7.

DEGREES. Fac. of Arts, History of Art: B.A. Hons., 2; M.A., 3; Archæology: M.A., 1; Diploma in History of Art: 5.

UNIVERSITY OF LONDON, SCHOOL OF SLAVONIC AND EAST EUROPEAN STUDIES

Founded 1915

Postal Address—University of London, School of Slavonic and East European Studies, W.C.1.

Telephone : Museum 9782-3.

CHAIRMAN OF COUNCIL—The Rt. Hon. THE EARL OF ONSLOW, G.B.E., J.P., D.L.

DIRECTOR—Sir BERNARD PARES, K.B.E., M.A. Camb. (to 30.9.39). Prof. W. J. ROSE, B.A. Manit., M.A. Ox., Ph.D. Cracow (from 1.10.39).

SECRETARY—DOROTHY GALTON.

LIBRARIAN—S. YAKOBSON, Ph.D. Berlin.

TEACHING STAFF

Czechoslovak

Wellek, R., Ph.D. Research Fellow.

Finnish

Burnham, R. E., M.A. Hon. Lectr.

History, Central European

Seton-Watson, R. W., D.Litt. Ox., Ph.D. Prague and Zag. Masaryk Prof.

Hungarian

Szenczi, N. J., M.A. Aberd., Ph.D. Lectr.

Polish

Rose, W. J., B.A. Manit., M.A. Ox., Ph.D. Cracow Prof.

Wharton, L. C., M.A. Ox. Hon. Lectr.

Russian

Pares, Sir Bernard, K.B.E., M.A. Camb. (Hist.) Hon. Lectr.

Boyanus, S. C. (Lang.) Lectr.

Raffi, Arshak (Lang.) Lectr.

Struve, G. P., B.A. Ox. (Lit.). Lectr.

Turin, S. P., D.Sc. (Econ.) Lectr.

Yakobson, S., Ph.D. (Hist.) Hon. Lectr.

Zernov, N., D.Phil. Ox. (Church Hist.) Hon. Lectr.

Serbo-Croat and Slovene

Subotić, D. P., Ph.D. Munich, B.Litt. Ox. Reader.

Slavonic Philology, Comparative

Morison, W. A., Ph.D. Prague, B.A. Lectr.

GENERAL INFORMATION

Established at King's Coll., 1915. Since Aug. 1932 a dept. of the Univ. in Arts. Library, 12,000 vols. FEES : £2 : 10s. to 34 gs. per session. COURSES : Special intensive courses for War Office, etc. students, and an extensive programme of lectures open to the public. Teaching provided in the lang., lit., hist. and econ. of Russia and the lesser-known countries of Eastern and Central Europe. Special facilities for research and postgraduate work. A diploma is open to students who have not matriculated at the Univ. Postgrad. Scholarship, v. App. II., 30.

PUBLICATIONS : *Slavonic and East European Review* (3 times a yr.), 6s. per part.

THE YEAR 1937–38

NEW POSTS. Lectureship in Hungarian Lang. and Lit.; lectureship instead of honorary lectureship in Russian Lang. and Phonetics; honorary lectureship in Finnish; professorship in place of readership in Polish.

STUDENTS. 157, including 12 graduates.

DEGREE OBTAINED. Ph.D. (Russian), 1.

UNIVERSITY OF LONDON, INSTITUTE OF ARCHÆOLOGY

Founded 1934

Inner Circle, Regent's Park, London, N.W.1.

Telephone: Welbeck 1697.

CHAIRMAN OF MANAGEMENT COMMITTEE—Sir CHARLES R. PEERS, C.B.E., Litt.D. Leeds, D.Lit., F.S.A., F.B.A., F.R.I.B.A.

HON. DIRECTOR—R. E. M. WHEELER, M.C., D.Lit., V.P.S.A.

PROFESSOR OF NEAR EASTERN ARCHÆOLOGY—SIDNEY SMITH, M.A. Camb., F.S.A.

SECRETARY—KATHLEEN KENYON, M.A., F.S.A.

GENERAL INFORMATION

Equipment provided in the first instance for the study of the Archæology of the British Isles and Near East, esp. of those countries for which Gt. Britain has special responsibilities, such as Palestine, Mesopotamia, etc.

Teaching collections for British and Palestine archæology, notably the Petrie Palestinian collection, are available to students.

Instruction is given in Archæology (for the University of London Diploma) and in Geochronology. Courses of lectures, open both to students and to the general public, are given in these subjects, on recent excavations both in the British Isles and the Near East, and on archæological methods.

Courses arranged in Repair and Preservation of Archæological Objects, Archæological Draftsmanship and Archæological Photography.

THE YEAR 1937–38

Photographic Dept. established through the generosity of the late Sir Robert Mond. This dept. gives instruction to students, and also undertakes work for archæological bodies of all sorts. A further donation by Sir Robert Mond enabled the Geochronological Dept. to be equipped for the full analysis of soils for the determination of the manner of deposition.

An important exhibition was held in the Spring of finds illustrating the archæological Field Work of the last 5 yrs. in the British Isles.

STUDENTS. Full-time: 1. Part-time: 82.

UNIVERSITY OF LONDON, BROWN ANIMAL SANATORY INSTITUTION

Founded 1871

149 Wandsworth Rd., Vauxhall, S.W.8.
Telephone : Macaulay 1450.

SUPERINTENDENT—Prof. F. W. TWORT, M.R.C.S., L.R.C.P., F.R.S.

Established in 1871 for "investigating, studying, and, without charge beyond immediate expenses, endeavouring to cure maladies, distempers, and injuries any quadrupeds or birds useful to man may be found subject to." It contains a Hospital, in which the diseases and injuries of animals are treated, and a Laboratory, where the investigation and study of diseases are carried on. Both In- and Out-Patients are treated (No. in 1937 : In, 32, Out, 1298). Clin. students may be admitted to the Vet. Depts., and Research students are received in the Laboratory. 5 lectures free to the public, based on the researches conducted in the Instn., are given annually at a College of the Univ. or the R. Coll. of Surgeons.

UNIVERSITY OF LONDON, INSTITUTE OF HISTORICAL RESEARCH

Founded 1921

University of London, Senate House, W.C.1.
Telephone : Museum 8000.

HON. DIRECTOR—A. F. POLLARD, M.A., D.Litt. Ox., Litt.D. Manc., D.Lit., F.B.A.

SECRETARY AND LIBRARIAN—C. G. PARSLOE, B.A.

The Institute of Historical Research was opened in 1921 in temporary premises built, furnished, and presented to the University by an anonymous donor. This building was demolished in 1938, and the Institute removed to new temporary quarters in the Senate House of the University. The Institute is primarily a laboratory for the training of postgraduate students in the methods of historical research, and for the use of visiting scholars while working in London. It is a department of the Univ., administered by a Committee appointed annually by the Senate, and consists of a systematically planned series of seminar libraries, equipped with the books containing or describing the main sources of mediæval and modern history. It is open not only to every professor, reader, or other teacher of history in the Univ. and his research students, but also to historians, archivists, and teachers and research students from other Univs. approved by the Committee. Instruction, under-

taken by members of the History Depts. of the Schools of the Univ., is carried on in (1) a series of preliminary courses dealing with the sources of English and Imperial history, an introduction to work in archives, and palæography classes; (2) a series of seminars dealing with special historical subjects. In addition, the Institute is active in promoting the organization of historical studies in general, undertaking bibliographical and other investigations, the results of which are published in its *Bulletin*, and arranging conferences.

LIBRARY. 53,961 books, periodicals, and pamphlets; also 432 maps, 566 facsimiles.

PUBLICATIONS. *Handbook; Annual Report; Bulletin* published thrice a year with two annual supplements ("Guide to the Historical Publications of the Societies of England and Wales," and "Historical Research for University Degrees in the United Kingdom") and occasional Special Supplements. *Victoria History of the Counties of England* (General Editor: L. F. Salzman, M.A. Camb., F.A.S.).

THE YEAR 1937–38

BENEFACTIONS. Donations from Banks and other sources amounting to £2244 toward the fund for a permanent building. £1700 from a group of Sussex landowners for the publication of the *Victoria History of Sussex*, vols. 3 and 9. 250 vols. on French history from the French Government.

MEMBERS—347.

UNIVERSITY OBSERVATORY

Founded 1929

Mill Hill Park, N.W.7.

Telephone: Mill Hill 1618.

DIRECTOR—C. C. L. GREGORY, M.A. Camb., D.I.C., F.R.A.S.

THE UNIVERSITY OBSERVATORY is situated in Mill Hill Park, London, N.W.7, on a site granted by the Hendon Urban District Council on a 999 years' lease at a nominal rent. It contains a 24-inch reflecting telescope, the gift of Mr. J. G. Wilson; a 24-inch photographic and 18-inch visual twin refractor, the gift of the Radcliffe Trustees; an 8-inch refracting equatorial telescope, the gift of Mr. H. R. Fry; and a spectrographic laboratory. The work of the Observatory is designed to meet the needs of postgraduate research workers in Astronomy. At present researches are in progress on the following subjects: proper motions of faint stars; photo-electric photometry; absorption band spectra. A stellar spectrograph is now available for work in the ultra-violet, and is being used for radial velocity determinations.

The Observatory is open to all properly qualified students of the University. Application for admission should be made to the Director.

SCHOOLS OF THE UNIVERSITY

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Founded 1907

Prince Consort Road, S. Kensington, S.W.7.
Telephone: Kensington 4861.

VISITOR—H.M. THE KING.

CHAIRMAN OF THE GOVERNING BODY—The Rt. Hon. The LORD RAYLEIGH, M.A., LL.D., Sc.D., D.Sc., F.R.S., D.L., J.P.

RECTOR—Sir HENRY THOMAS TIZARD, K.C.B., M.A. Ox., F.R.S.

SECRETARY AND SECRETARY TO THE DELEGACY—G. C. LOWRY, M.A. Camb.

REGISTRAR—P. ROEBUCK.

TEACHING STAFF

Aeronautics

Bairstow, L., C.B.E., D.Sc., A.R.C.S., F.R.S. (Aviation) Zaharoff Prof. and Director of Dept.

Hill, F. T., F.R.Ae.S., M.I.Ae.E. (Design) Asst. Prof.

Special Lecturers

Bowen, I., M.Sc. (Air Navigation and Instruments)

Cox, H. Roxbee, B.Sc., Ph.D., D.I.C., F.R.Ae.S. (Aircraft Structures)

Fletcher, A. A., B.Sc., D.I.C., A.R.C.S. Asst. Lectr.

Bacteriology

.....
Asst. Prof. and Univ. Reader.

Jacobs, S. E., Ph.D., A.R.C.S. Asst. Lectr.

Biochemistry

Chibnall, A. C., M.A., Sc.D. Camb., Ph.D., F.R.S. Prof.

Buston, H. W., D.Sc., A.R.C.S., D.I.C. Lectr.

Biology, v. Bacteriol., Bot., Entomol., Zool.

Botany

Brown, W. M.A. Edin., D.Sc. (Plant Path.) Prof

Gregory, F. G., D.Sc., D.I.C. (Plant Physiol.) Prof.

Tabor, R. J., B.Sc., F.L.S. Asst. Prof. and Univ. Reader.

Lecturers

Howarth, F., B.Sc., A.R.C.S., F.L.S.

Henderson, F. Y., D.Sc., D.I.C., F.L.S.

Blackman, G. E., B.A. Camb.

Asst. Lecturers

Pratt, Clara A., M.A., Ph.D., D.I.C., F.L.S.

Hawker, Lilian E., M.Sc., Ph.D.

Oxley, T. A., B.Sc., A.R.C.S. Demr.

Chemical Technology

Egerton, A. C. G., M.A. Ox., B.Sc., F.R.S. Prof.
Finch, G. I., M.B.E., Dip. Tech. Chem. Zürich, F.Inst.P., F.R.S.
(Applied Phys. Chem.) Prof.
Newitt, D. M., M.C., D.Sc., A.R.C.S., D.I.C.
Asst. Prof. and Univ. Reader.
Himus, G. W., B.Sc., A.R.C.S., D.I.C. (Fuel T.) Lectr.
Hancock, W. C., B.A. Camb.
(Refractory Materials and Silicate Technol.)
Special Lectr.
Guggenheim, E. A., M.A., D.Sc. Camb.
(Chemical Thermodynamics) Lectr.
..... Asst. Lectr.

Chemistry

Briscoe, H. V. A., D.Sc., A.R.C.S., D.I.C.
(Inorg. C.) Prof., Director of Inorg. and Phys. Labs.
Heilbron, I. M., D.S.O., Ph.D. Leipz., D.Sc. Glas., F.I.C., F.R.S.
(Org. C.) Prof. and Director of Labs.

Asst. Profs. and Univ. Readers

Harwood, H. F., M.Sc. Manc., Ph.D. Heid., F.I.C. (Inorg. C.)
Kon, G. A. R., M.A. Camb., D.Sc., D.I.C. (Org. C.)
Ellingham, H. J. T., Ph.D., A.R.C.S. (Phys. C.)
..... (Atomic C.)
Eldridge, A. A., B.Sc., F.I.C. Senr. Lectr.

Lecturers

Sugden, J. N., Ph.D., A.R.C.S., D.I.C.
Bull, P. C., D.S.O., A.R.C.S.
Pollard, A. G., B.Sc., A.R.C.S.
Hey, D. H., B.Sc., Ph.D.
Theobald, L. S., M.Sc., A.R.C.S.
Emeléus, H. J., D.Sc., A.R.C.S., D.I.C.
Purcell, R. H., Ph.D., A.R.C.S.

Asst. Lectrs.

King, A., B.Sc., A.R.C.S., D.I.C.
Jones, E. R. H., B.Sc., Ph.D.
Pearson, T. G., M.Sc., Ph.D.
Cook, A. H., B.Sc., Ph.D., A.R.C.S., D.I.C.
Stewart, K., B.Sc., Ph.D., A.R.C.S., D.I.C. Demr.
Marsden, A. W., B.Sc., A.R.C.S. Demr.
Kitchener, J. A., B.Sc., Ph.D. Demr.

Engineering, Chemical

The Prof. of Engineering.
The Prof. of Chemical Technology.
Ure, S. G. M., M.A., B.Sc. Glas.
Asst. Prof. and Univ. Reader.
Newitt, D. M., M.C., D.Sc., D.I.C., A.R.C.S.
Asst. Prof. and Univ. Reader.
Saunders, O. A., M.A., M.Sc.
Asst. Prof. and Clothworkers' Reader in Thermodynamics.
Himus, G. W., Ph.D., D.I.C., A.R.C.S. Lectr.
Coulson, J. M., B.A. Camb., Ph.D. Asst. Lectr.

Engineering, Civil, and Surveying

Pippard, A. J. S., M.B.E., D.Sc., M.Inst.C.E., M.Amer. Soc.C.E. Prof. and Hd. of Dept.
Clements, R. G. H., M.C., M.Inst.C.E.
(Highway Eng.) Prof.
Rice-Oxley, K., A.C.G.I., M.I. Struc.E.
Asst. Prof. and Univ. Reader.

White, C. M., B.Sc., Ph.D.
Asst. Prof. and Univ. Reader.

Lecturers
Manton, B. G., B.Sc.
Chilton, O. H., M.Sc., A.C.G.I., D.I.C.

Asst. Lectrs.
Yates, A., B.Sc. (Eng.)
Sparkes, S. R., M.Sc., D.I.C.
Marshall, W. T., B.Sc., A.C.G.I., D.I.C.
Stephenson, A., M.A.
Chitty, Miss L., M.A., D.I.C., F.R.Ae.S. Research Asst.

Engineering, Electrical
Fortescue, C. L., O.B.E., M.A. Camb., M.Inst.C.E., M.I.E.E. Prof.
Rushton, A., M.Sc. Tech. Manc., M.I.E.E.
Asst. Prof. and Univ. Reader.

Lecturers
Sims, J. W., M.I.E.E., M.I.Mech.E.
Hopkin, D. W.
Urwin, C. R., A.C.G.I.
Taylor, E. O., B.Sc., A.C.G.I., D.I.C.
Hughes, L. E. C., Ph.D., A.C.G.I., D.I.C.
Jackson, E. G. T.

Asst. Lectrs.
Park, H. E.
D'Ombrain, G. L., Ph.D., A.C.G.I., D.I.C.
Ward, E. E., B.Sc. Birm.
Rissik, H., B.Sc. Glas.
Tombs, D. M., M.Sc., A.C.G.I.

Demrs.
Rutenberg, D., B.Sc.
Mole, J. H., B.Sc., A.C.G.I., also Research Asst.

Engineering, Mechanical, and Motive Power
Lander, C. H., C.B.E., D.Sc., M.Inst.C.E., M.I.Mech.E.
Prof. and Hd. of Dept.

Witchell, E. F. D., B.Sc., F.C.G.I., M.I.Mech.E. Prof.
Howard, J. V., D.Sc., M.I.Mech.E.
Asst. Prof. and Univ. Reader.
Smith, S. L., D.Sc., A.C.G.I., M.I.Mech.E.
Asst. Prof. and Univ. Reader.
Cruickshank, A., M.I.Mech.E.
Asst. Prof.
Saunders, O. A., M.A., M.Sc. (Thermodynamics)
Asst. Prof. and Clothworkers' Reader.
Fishenden, Margaret, D.Sc., F.Inst.P. Hon. Lectr.

Lectrs. and Instrs. (E. Design and Appl. Mechs.)
Lewitt, E. H., B.Sc.
Cawley, G. M.
Dyson, F., B.Sc., A.C.G.I.
Collins, W., B.Sc., A.C.G.I.
Glaister, E., M.Sc., A.C.G.I., D.I.C.
James, J. W., B.Sc., A.C.G.I.
Beal, A. E., A.R.C.S. Asst. Lectr.
Treharne, T. L. G., B.Sc., A.C.G.I. Asst. Lectr.
Chalk, J. T., B.Sc., M.I.Struct.E. Instr. and Demr.
Brook, A. T., M.Sc., A.C.G.I., D.I.C. Inst. and Demr.

Entomology, v. Zoology

Fuel, v. Chemical Technology

Geology, v. also Oil Technol.
Read, H. H., D.Sc., A.R.C.S., F.G.S.
Prof. and Hd. of Dept.

Asst. Profs. and Univ. Readers.
Brammall, A., D.Sc., Ph.D., D.I.C. A.Inst.M.M. (Petrology).
Jones, W. R., D.Sc., D.I.C., M.Inst.M.M. (Mining. Geol.).
Edge, A. B. Broughton, B.Sc., A.R.C.S., A.R.S.M., D.I.C., M.Inst.M.M. Hon. Lectr.
Williams, D., B.Eng. Liv., M.Sc., Ph.D., A.Inst. M.M. (Appl. Geophysics) Lectr.

Asst. Lectrs.
Slater, G., D.Sc , A.R.C.S., D.I.C.
Blyth, F. G. H., M.Sc., A.C.G I., D.I.C.
Shackleton, R. M., B.Sc., Ph D. Liv.
Wood, A., M.Sc. Liv., Ph.D.
Coomber, S. E., B.Sc., A.R.S.M.

Demrs.
Leech, J. G. C., A.R.S.M., D.I.C., A.Inst.M.M.
Harper, J. C , B.Sc., A.R.C.S.
Townley, K. A., B.Sc., A.R.C.S. Museum Asst.

Mathematics and Mechanics
Chapman, S., M.A. Camb., D.Sc. Vict., F.R.S. Chief Prof.
Levy, H., D.Sc. Ox., M.A., B.Sc. Edin. Prof.

Asst. Profs. and Univ. Readers.
Jones, H., B.Sc. Leeds, Ph.D Leeds and Camb.
Bickley, W. G., D.Sc.
Penney, W. G., M.A. Wisc., Ph.D. Lond. and Camb., D.Sc.

Lecturers
Milner, L. G., A.R.C.S.
Dickson, T. W., M.C., B.A. Ox.
Harvey, J., B.Sc., A.R.C.S.
Kebby, C. H., M.Sc., A.R.C.S
Roth, L., M.A.
Price, A. T., M.Sc.
Ehrenborg, G. B., M.A.

Asst. Lectrs.
Turton, F. J., B.Sc., A.R.C.S., D.I.C.
Hatley, A. J., M.A.
Young, Miss R. C. H., Ph.D.
Schmidt, R. J., Ph.D.

Demrs.
Preidel, E. E., M.Sc.
Hirst, Miss D. M., M.A.
Kemmer, N., D.Phil. Zür.
Kynch, E. J., B.Sc., A.R.C.S.

Metallurgy
Carpenter, Sir H. C. Harold, M.A. Ox., Ph.D. Leip., D.Sc. Wales, D.Met. Sheff., A.R.S M., M.Inst.M.M., F.R.S. Prof.
Dannatt, C. W., A.R.S.M., D.I C., F.I.C., A.Inst.M.M. Asst. Prof. and Univ. Reader.
Chapple, H. M., A R.S.M. Senr. Lectr.

Lecturers
Fisher, M. S., D.Sc., Ph.D., A.Inst.M.M.
Robertson, J. M., D.Sc., Ph.D., A.R.T.C.
Yeoman, E. W., M.Sc., A.R.S.M., A.R.C.S , D.I.C., F.I.C.
Pearse, L. E. B., A.R.S.M., M.Inst.M.M., F.I.C., F.G.S. Asst. Lectr.

Meteorology, v. Physics

Mineralogy, v. Geol.

Mining, v. also Geol.
Ritson, J. A. S., D.S.O., M.C., O.B.E., T.D., B.Sc. Durh., M.Inst.M.M. Prof.
Holman, B. W., O.B.E., A.R.S.M., M.Inst.M.M. Asst. Prof. and Univ. Reader.
Sillick, W. E. G., A.R.C.S., D.I.C. Asst. Prof.

Lecturers
Wilson, W. H., M.Sc., A.R.S.M.
Davies, W., B.Sc. Wales, Ph.D. Leeds
Faulkner, H. W., B.A. Camb., A.R.S.M., M.I.M.M.

Asst. Lectrs.
Tweed, W. S., A.R.C.S., D.I.C.
Sheppard, J. S., B.Sc., A.R.S M.

Oil Technology
Illing, V. C., M.A. Camb., M.I.M.M., M.I.P.T. Prof.
Wolf, A. Lectr.

Palæontology, v. Geol.

Petrology, v. Geol.

Physics

Thomson, G. P., M.A. Camb., F.R.S.
Prof. and Director of Labs.
Pollard, A. F. C., A.R.C.S., F.Inst.P. (Instrument Design (Mech.)) Prof.
Brunt, D., M.A. Camb., B.Sc. (Meteorol.) Prof.
Dingle, H., D.Sc., A.R.C.S., D.I.C. (Nat. Phil.) Prof.
Gregory, H. S., Ph.D., A.R.C.S., D.I.C.
Asst. Prof. and Univ. Reader.
Martin, L. C., D.Sc., A.R.C.S., D.I.C. (Tech. Optics).
Asst. Prof. and Univ. Reader.
Sheppard, P. A., B.Sc. Brist. (Meteorol.) Reader.
Archer, C. T., M.Sc., A.R.C.S., D.I.C. Reader.
Jevons, W., D.Sc., A.R.C.S., D.I.C. Hon. Lectr.

Lecturers

Brinkworth, J. H., D.Sc., A.R.C.S., D.I.C.
Green, S. E., Ph.D., A.R.C.S., D.I.C.
Wright, W. D., D.Sc., Ph.D., A.R.C.S., D.I.C. (Tech. Optics).
Mann, W. B., B.Sc., A.R.C.S.
Pearse, R. W. B., Ph.D., A.R.C.S., D.I.C.
Wynn-Williams, C. E., Ph.D. Camb., M.Sc. Wales.
Bruckshaw, J. McG., M.Sc., Ph.D., D.I.C.

Asst. Lectrs.

Stephens, R. W. B., B.Sc., Ph.D., A.R.C.S., D.I.C.
Blackman, M., M.Sc. S. Afr., Ph.D. Gött. and Lond.
Johnson, B. K., D.I.C. (Tech. Optics).

Demrs.

Cochrane, W., M.A., Ph.D.
Garton, W. R. S., B.Sc., A.R.C.S.
Parry, G., B.Sc.
Bruce, R., B.Sc., A.R.C.S.

Refractory Materials and Silicates, v. Chemical Technol.

Zoology and Applied Entomology

Munro, J. W., M.A. Ox., D.Sc. Edin. Prof.
Hewer, H. R., M.Sc., A.R.C.S., D.I.C.
Asst. Prof. and Univ. Reader.
Richards, O. W., M.A., D.Sc. Ox. Reader.
Fraenkel, G., Ph.D. Gött. Lectr.
Dennell, R., M.Sc. Manc. Asst. Lectr.
Yapp, E. K., B.A. Demr.
Freeman, P., B.Sc., A.R.C.S. Demr.

Research Institute in Plant Physiology

Blackman, Prof. V. H., M.A., Sc.D. Camb., F.R.S. Director.
Gregory, Prof. F. G., D.Sc., D.I.C. Asst. Director.

Research Staff

Bolas, B. D., D.Sc., D.I.C.
Richards, F. J., B.Sc.
Porter, Mrs. H. K., D.Sc.
Purvis, Miss O. N., Ph.D.
Pearse, H. L., Ph.D.

Biological Field Station, Slough

Munro, Prof. J. W., M.A. Ox., D.Sc. Edin. Director.

Research Staff

Page, A. B. P., Ph.D., A.R.C.S.
Herford, G. V. B., M.A. Ox., M.Sc.
Potter, C., M.Sc., Ph.D., D.I.C.
Lubatti, O. F., D.Chem. Turin, M.Sc., D.I.C.

Huxley Lecturer

1939—J. Reid Moir, F.R.S., "The Earliest Man."

GENERAL INFORMATION

Founded by Royal Charter in 1907 for the purpose of giving the highest specialized instruction and providing the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to Industry, the Imperial College includes as integral parts the following Associated Colleges with the departments and (in brackets) sub-departments attached to them:

ROYAL COLLEGE OF SCIENCE: Biology (Botany, Bio-Chemistry, Plant Physiology, Plant Pathology, Bacteriology), Chemical Technology (Fuel and Refractory Materials, Electro-Chemistry), Chemistry (Inorganic, Organic, and Physical), Geology (Mining Geology, Oil Technology), Mathematics and Mechanics, Physics (Astrophysics, Technical Optics, Instrument Design, Applied Geophysics, Meteorology), Zoology and Applied Entomology.

ROYAL SCHOOL OF MINES: Metallurgy, Mining (Mining Geology), Oil Technology. For Research Laboratory, v. App. III. A.V. 33.

CITY AND GUILDS COLLEGE: Aeronautics (Aerodynamics), Engineering—Chemical, Civil and Surveying (Highways), Electrical, Mechanical and Motive Power.

The total staff exceeds 200. The College is a School of the University in Science and Engineering. Students who are registered as candidates for one of the Associateships, and who have matriculated at the Univ. of London by examn. or exemption, are eligible for the B.Sc. Degree of the Univ., in the Facs. of Sci. or Eng., on the examns. for the relative Associateship, if the Univ.'s regns. are complied with. The buildings occupy about 8 acres and cost with equipment over £1,000,000.

The courses of study are designed for students of Univ. standard whose vocations will be concerned with the scientific aspects of industries.

ADMINISTRATION. The administration of the Imperial College is vested in a Governing Body consisting of 47 members representing the Crown, the Indian Empire, the self-governing Dominions, the Board of Education, the University of London, the London County Council, the City and Guilds of London Institute, the Royal Commissioners for the Exhibition of 1851, the Royal Society, the Professorial Staff of the Imperial College, and learned societies concerned with industries. The Rector, as chief administrative officer of the Imperial College, for the time being, is also a member.

LIBRARIES, ETC. The Library of the Science Museum is available for the use of Students, and each Dept. is provided with a special Library, Research Laboratories, and full facilities for advanced study.

SPECIAL RESEARCH DEPARTMENTS. The Research Institute in Plant Physiology was established in 1913 at the College. For staff, v. *supra*, v. also Appendix III. A.I.a.

The Biological Field Station at Hurworth, Slough, Bucks, was established in 1929, and is under the direction of the Professor of Zoology and Applied Entomology. The facilities available at the station are also used by other departments. For staff, v. *supra*, v. also Appendix III. A.I.f.

ADMISSION. The conditions of admission are as under, but the College reserves power to admit in special cases candidates whose qualifications do not in every respect coincide with those prescribed, but whose previous training fits them to take full advantage of the course proposed; the prescribed qualifi-

cations give no right to admission, but will be considered with others of which the candidate may give evidence. For Admission to 1st yr. candidates must either pass the September Entrance Exam. in Maths. and Mechanics, Chem., Physics, English, and one of French and German, or an accepted equivalent examn., *e.g.* Matricn. of the Univ. of London, in English, French, Chemistry, Electricity and Magnetism, and Elementary Maths. would exempt from all subjects of the College Examn., excepting Maths. and Mechanics. More advanced Maths. and elementary Mechanics of the Matricn. Examn. would exempt from the College papers in Maths. and Mechanics. Candidates desiring to be admitted direct to the 2nd yr. must take the higher or B papers of the Entrance Examn. in Maths., Mechanics, Chem., and Physics; these papers may also be taken for Intermed. B.Sc. of London in the case of matriculated candidates. Candidates for the Engineering College must take Machine Drawing in addition, and, if matriculated candidates, may thus qualify for the Intermed. B.Sc. in Engineering. The normal age of admission is 17 years or over.

DIPLOMA AND OTHER COURSES. The undergraduate courses extend over 3 or 4 yrs. and lead up to an Associateship (A.R.C.S., A.R.S.M., A.C.G.I.), and, in the case of matriculated students, to the B.Sc. (Special) or B.Sc. (Engineering), as the case may be. The Associateship and the Degree are awarded on the same examns. The post-graduate courses and research lead up to the Diploma of Membership of the Imperial College (D.I.C.), and to the higher Degrees of the Univ. of London. Special courses are arranged for graduates and persons engaged in scientific industrial pursuits.

FEES. Entrance, £2; Tuition, per session, for full-time undergraduate students, £60 (including Union fees); for less than full-time, at the rate of £63 per session; for post-graduate students at the R.C.S. and R.S.M., £30, at the C. and G. Coll., £60. An additional charge may be made for expensive apparatus or chemicals.

SCHOLARSHIPS for postgrad. work: Beit Fellowships for Research, v. Appendix II. 17; Plimmer Fellowship in Pathology, approx. £230; £100 in Botany; and many others (v. *Calendar*).

AFFILIATION, ETC. The Univ. of Sheffield is associated with the Coll. for Advanced Studies in the Metallurgy of Iron and Steel. Students of Huddersfield Technical Coll. may be admitted, subject to certain conditions, without examn.

APPOINTMENTS BOARD. The College Appointments Board assists Associates and Members of the College to find employment on the completion of their College courses.

HOSTEL. There is a residential hostel at the College, with accommodation for 100 students, at a cost of about 39s. to 47s. per week. Applications for admission should be addresed to the Warden (A. A. Eldridge, B.Sc., F.I.C.).

STUDENTS' UNION. The Imperial College Union building in Prince Consort Road is the home of the various student organisations, including the Imperial College Union, the Royal College of Science Union, the Royal School of Mines Union, the City and Guilds College Union, and a large number of Societies and Athletic Clubs. There is a College Refectory in the building, and a College Bookstall.

PUBLICATIONS. *Annual Report*; *Calendar*, with list of Associates, pubd. by the Coll.

THE YEAR 1937–38

BENEFACTIONS. Sundry donors: over £3000 p.a. for Scholarships for courses in Royal School of Mines; Rockefeller Foundation, £1000 for Organic Chemistry Dept. equipment, and £1700 p.a. for research in same Dept.; Imperial Chemical Industries, £1000 for equipment in Organic Chemistry Dept.

NEW BUILDINGS. New Boat-House at Putney. Considerable alterations in Chemistry Dept., and other structural improvements in various depts.

RETIREMENTS. Prof. J. C. Philip (Physical Chem.), Prof. J. F. Thorpe (Organic Chem.), W. L. Odell (Mathematics), W. Reeve (Mathematics), A. H. Webb (Mining), J. J. E. Hughesdon (Librarian), W. V. Shearer (Civil Eng.).

DEATHS. W. A. Bone, Emeritus Prof. of Chemical Technology, 1909–1936; S. G. Paine, Asst. Prof. and Reader in Plant Bacteriology, 1911–1937.

STUDENTS. Full-time: 1030, including 386 graduates. Part-time: 113, including 45 graduates. In addition: 97 Research Assistants and 27 Intercollegiate students.

DEGREES OBTAINED. B.Sc. in Science, 92; in Engineering, 104; higher degrees in Science: Ph.D., 33; M.Sc., 13; D.Sc., 4; higher degrees in Engineering: Ph.D., 4; M.Sc., 11; D.Sc. (Eng.), 2.

DIPLOMAS GRANTED. A.R.C.S., 84; A.R.S.M., 29; A.C.G.I., 88; D.I.C., 121. Total, 322.

QUEEN MARY COLLEGE

(*Formerly* EAST LONDON COLLEGE)

Founded 1892

Mile End Road, E.1.

Telephone: Advance 3384-5-6.

CHAIRMAN OF THE GOVERNORS—Sir LYNDEN MACASSEY, K.B.E., K.C.

PRINCIPAL—Maj.-Gen. Sir FREDERICK B. MAURICE, K.C.M.G., C.B., LL.D. Camb., D.Lit.

REGISTRAR—J. ELLISON-MACARTNEY.

TEACHING STAFF

Aeronautical Engineering

Piercy, N. A. V., D.Sc. (Eng.), M.I.C.E., M.I.M.E., F.R.Ae.S. Reader.
Whitehead, L. G., B.Sc. (Eng.) Lectr.

Botany

Fritsch, F. E., Ph.D. Mün., D.Sc., F.R.S. Prof.
Haines, F. M., B.Sc., Ph.D. Lectr.
Newby, H. V., B.Sc. Lectr.
Godward, Maud B. E., M.Sc., Ph.D. Asst.

Chemistry

Partington, J. R., M.B.E., D.Sc. Manc. Prof.
Drew, H. D. K., Ph.D., D.Sc. (Organic C.) Reader.
Jones, D. C., D.Sc. Wales, Ph.D. Johns Hopkins Reader.

Lecturers

Patterson, W. H., D.Sc. Manc.
Bury, F. W., M.Sc. Manc.
Stratton, Mrs. K., M.Sc.
Petrow, V. A., B.Sc., Ph.D.

Classics

Tredennick, G. H. P. P., M.A. Camb. Reader.
Mozley, J. H., M.A. Camb. Lectr.
Manton, G. R., M.A. Camb. Lectr.

Engineering, Civil and Mechanical, v. also Aero. Eng.

Lamb, E. H., D.S.C., D.Sc. Manc. M.I.Mech.E. Prof.
Wedgwood, G. A., M.Sc. Belf., M.I.Mech.E. Reader.
Higgins, A. L., D.Sc. Belf., A.R.C.S. (Civil E.) Reader.
Brendel, F. C. L., B.Sc., Ph.D. Lectr.
2 Assts.

Engineering, Electrical

John, W. J., B.Sc., A.R.C.S., D.I.C., M.I.E.E. Prof.
Stoner, C. R., B.Sc. Lectr.
Dannatt, C., D.Sc. Durh., M.I.E.E. Lectr.
Cameron, D. H., B.Sc. (Eng.) Asst.
Last, F. H., B.Sc. (Eng.) Asst.

English Lang. and Lit.

Evans, B. Ifor, M.A. Prof.

Lecturers

Williams, O. T., M.A. Wales.
Budd, F. E., B.A., Ph.D.
White, Beatrice M. I., M.A.

French Lang. and Lit.

Dechamps, J., D. ès L. & Ph. Liège Prof.
Rozelaar, L. A., M.A. Lectr.
Halket, Eliz. C., M.A. Lectr.

Veyre, Suzanne, L. ès L. Lyon Asst.

Geography and Geology

Smith, H. G., B.Sc. Reader.
Lebon, J. H. G., B.Sc. Lectr.
Mutton, Alice F. A., M.A., Ph.D. Lectr.

German Lang. and Lit.

Hatto, A. T., M.A. Lectr.
Gilbert, Mary E., Ph.D. Berlin Asst.

History, Modern

Clarke, F., M.A. Ox. Prof.
Chew, Helena M., M.A., Ph.D. Lond. Lectr.

Mathematics, Pure and Applied

Le Beau, G. S., M.A. Ox. Hd. of Dept., Lectr.
Green, S. L., M.Sc. Lectr.
Soal, S. G., M.A. Lectr.
Piper, R. W., M.Sc. Lectr.
Leggett, D. M. A., B.A. Camb. Lectr.
Love, E. R., B.A., Ph.D. Camb., B.A. Melb. Lectr.

Physics

Robinson, H. R., Ph.D. Camb., D.Sc. Manc., F.R.S. Prof.
Ferguson, A., M.A. Wales, D.Sc. Asst. Prof.

Lecturers

Calthrop, J. E., M.A. Camb., M.Sc.
Irons, E. J., B.Sc., Ph.D.
Clews, C. J. Birkett, B.Sc., Ph.D.
Mayo, R. L., B Sc. Asst.

Spanish

Barragán, J. V. Lectr.

Zoology

Grove, A. J., M.A. Camb., D.Sc. Birm. Hd. of Dept., Reader.
Newell, G. E., B.Sc., Ph.D. Lectr.
Forrest, J. E., B.Sc. Edin. Lectr.
Rickard, B. C., B.Sc. Asst.

GENERAL INFORMATION

Established 1892. Governed by Governors who include the Master and Clerk of the Drapers' Company, and representatives of the L.C.C., the Univ., and the Staff. A School of the Univ. in Arts, Science, and Engin. Students proposing to take the Medical course at the London Hospital are offered special facilities for carrying on their studies for the Prelim. Med. Examn. Special Research LABORATORIES in Physics, Chem., Elec. Engin. Degree courses in Arts, Science, Engin. (including Aeronautical Engin.), and Med. Fees from £25 : 2s. Hall of Residence for men students at South Woodford (Warden : G. R. Manton, M.A.), and Hall of Residence for women at South Woodford (Warden : Miss G. A. Burrows) ; residence and board 32s. 6d. and 35s. per week respectively. Union Society. Old Students' Association.

ENTRANCE SCHOLARSHIPS AND EXHIBITIONS. These include five Scholarships (3 for men, 2 for women), value £80 p.a., and four Exhibitions, value £30 p.a., all for 3 yrs., awarded by the Drapers' Company in Feb. of each year on the result of the Inter-Collegiate Scholarships Examn. The Governors award ten College Exhibitions, to cover tuition fees, on the result of the same examn.

PUBLICATIONS. *Calendar*, 1s. post free. College Magazine.

THE YEAR 1937–38

NEW BUILDINGS. A new block to house the Arts Depts. and the Dept. of Zoology, opened by the Chancellor of the Univ. on 12th Oct. 1938.

RETIREMENT. Prof. J. T. MacGregor-Morris (Elec. Engin.), after 40 years' service.

STUDENTS. Full-time : 379, including 29 graduates. Part-time : 45, including 28 graduates.

DEGREES OBTAINED. B.A., 25 ; M.A., 4 ; B.Sc., 44 ; M.Sc., 8 ; Ph.D. (Sci.), 8 ; D.Sc. (Sci.), 1 ; B.Sc. (Eng.), 20 ; M.Sc. (Eng.), 1 ; Ph.D. (Eng.), 1.

BIRKBECK COLLEGE

Founded 1823

Fetter Lane, E.C.4.

Telephone: Holborn 2245 and 5555.

PATRONS—H.M. THE KING; H.M. THE QUEEN; H.M. QUEEN MARY.
PRESIDENT OF THE COLLEGE—.....
CHAIRMAN OF THE GOVERNORS—W. L. HICHENS.
PRINCIPAL—GEORGE SENTER, D.Sc., Ph.D., F.I.C. (to 30.9.39).
J. P. R. MAUD, M.A. Ox. (from 1.10.39).
SECRETARY—G. F. TROUP HORNE, B.A.
LIBRARIAN—M. CLIVE HILDYARD, B.A., Ph.D.

TEACHING STAFF

Botany

Gwynne-Vaughan, Dame Helen, G.B.E., LL.D. Glas., D.Sc., F.L.S. Prof.*
Steward, F. C., M.Sc., Ph.D. Leeds, D.Sc. Reader.
Wilson, K., M.Sc. Lectr.
Taylor, G., D.Sc. Edin. Sp. Lectr.
Broadhead, Mrs. Q. E., M.Sc. Sp. Lectr.
2 Demrs.

Chemistry

Barrow, F., M.Sc. Birm., Ph.D. Stras.*
Wardlaw, W., D.Sc. Durh., F.I.C. (Phys. Chem.) Prof.*
The Principal (to 30.9.39).
Thorneycroft, F. J., B.Sc. Birm., M.Sc., Ph.D. Lectr.
Ives, D. J. G., B.Sc., Ph.D., A.R.C.S., D.I.C., A.I.C. Lectr.
Welch, A. J. E., B.Sc. Lectr.
4 Demrs.

Classics and Ancient History

Warmington, E. H., M.A. Camb. Prof.*
Winnington-Ingram, R. P., M.A. Camb. Reader.
Way, A. G., M.A. Lectr.†

Economics

Wensley, A. J., M.Com. Birm. Lectr.†

English Lang. and Lit.

Sutherland, J. R., M.A. Aberd., B.Litt. Ox. (Lit.) Prof.*
Daunt, B. Marjorie, Final Eng. Hons. Ox. (E. Lang.) Reader.
Potter, S. M., B.A. Ox. Lectr.†

French Lang. and Lit.

Tanquerey, F. J., D. ès L. Paris, O.A. Prof.*
Wilson, Claudine I., M.A. Aberd., Ph.D. Reader.
Gould, Mrs. Marjorie, B.A. Lectr.†
Aubry, Alice, L. ès L. Clermont-Ferrand, Ph.D. Lectr.†

Geography

Taylor, Eva G. R., D.Sc. Prof.*
Henderson, H. C. K., M.A., B.Sc. Glas., Ph.D. Lectr.
O'Dell, A. C., M.Sc. Lectr.
Smailes, A. E., M.A. Lectr.†

* Head of Dept.

† Pt.-time Lectr.

Geology [Reader.*
Davies, G. MacD., M.Sc., F.G.S.
Spath, L. F., D.Sc., F.G.S. Lectr.†
Smithson, F., B.Sc., Ph.D., F.G.S. Lectr.†

German
McClean, R. J., Ph.D. Königsberg, M.A. Reader.*
Elston, C. S., M.A. Leeds, B.A., Ph.D. Lectr.†
Mainland, W. F., M.A. Edin. Lectr.†

History [Reader.*
Jones, Arthur, M.A. Manc.
Morrell, W. P., M.A. N.Z., D.Phil. Ox. Reader.
Dakin, D., M.A. Camb., Ph.D. Lectr.

Italian
Crespi, A., D.Lett. Padua Lectr.†

Mathematics, Pure and Applied
Smart, E. H., M.A. Camb. Lectr.*
Dienes, P., D.Ph. Budapest, D. ès Sc. Paris Reader.
Fox, C., M.A. Camb., D.Sc. Lectr.
Cooke, R. G., D.Sc. Lectr.
Ball, A. E., B.A. Camb. Lectr.†
Land, F. W., M.Sc., Ph.D. Lectr.†

Military Studies
Mathew-Lannowe, Brig.-General E. B., C.M.G., D.S.O. Reader at King's Coll.

Philosophy, Psychology, and Logic
Joad, C. E. M., M.A. Ox., D.Lit. Lectr.*†
Greenwood, T., M.A., L. ès L. Paris, O.I.P. (Logic) Lectr.†

Physics
Bernal, J. D., M.A. Camb., F.R.S. Prof.*
Simons, L., D.Sc., F.Inst.P. Reader.
Nettleton, H. R., D.Sc. Lectr.
Braddick, H. J. J., Ph.D. Camb. Lectr.
Siday, R. E., B.Sc. Lectr.
1 Demr.

Zoology
Jackson, H. G., D.Sc. Liv. Prof.*
Graham, A., M.A., B.Sc. Edin. Reader.
Russell, Lilian, B.Sc. Sheff., M.Sc. Lectr.
Fretter, Vera, B.Sc., Ph.D. Lectr.†
3 Demrs.

* Head of Dept. † Pt.-time Lectr.

GENERAL INFORMATION

Founded 1823 by Dr. George Birkbeck " for the purpose of giving education to students in the principles of the Arts they practise, and in the various branches of Science and useful knowledge." A School of the Univ. in Arts and Science for evening and part-time students. Playing Fields (18 acres) at Greenford.

LIBRARY. 37,000 vols., including special Science Departments.

COURSES. Complete courses for degrees in Arts and Science, for the Academic Diploma in Geography and for the Inst. of Chemistry examns.

FEES. Annual Composition fees, including subscription to Students' Union: Arts, 1st yr., £10, subsequent yrs., £11. Science (incl. Hons. Geography in both Faculties), 1st yr., £12, subsequent yrs., £13 : 10s. Post-graduate work, evening and part-time, 5-8 gs., whole time, Arts £11, Science £13 : 10s.

PUBLICATIONS. *Calendar*, 1s.; *Report* (annual); *Haldane Memorial Lecture*; *Foundation Oration*; *Lodestone*, 6d. (Students, terminally).

THE YEAR 1937–38

NEW BUILDINGS AND BENEFACTIONS. The Court of the Univ. has provided the land for new buildings for the College on the Bloomsbury site on certain conditions, and the plans are nearing completion. In connexion with the public appeal for funds to provide the new buildings the Univ. Court has allocated a sum of £50,000 out of the grant from the London County Council and a further £10,000 has been contributed by the Court from University moneys; the Pilgrim Trust, £10,000; the National Union of Teachers, £10,000, and the City Corporation, £5000. During the past year the University Grants Committee has promised to contribute £10,000, the Middlesex County Council £25,000 and the Surrey County Council £8000. Donations have also been received from certain City Companies and private individuals. The amount now available exceeds £180,000.

The late Miss E. S. Haldane, a Governor of the College, bequest of £2000.

CHANGES IN REGULATIONS. Faculty of Laws discontinued.

NEW DEPARTMENTS AND POSTS. Additional full-time lectureship in Chemistry; temporary part-time lectureship in Honours Modern German Lit.; separate part-time lectureships in Classics and Maths. in place of former combined lectureship.

INTERCHANGE OF TEACHERS. Dr. Edna Williams, Lecturer in Eng. Lang. at Smith College, Northampton, Mass., U.S.A., interchanged with Miss B. Marjorie Daunt (English).

RETIREMENTS. Jethro Bithell (German); William Walker (Classics and Pure Maths.); A. W. Baker Welford, J. B. Richardson, Dr. H. Goitein, Sir Fiennes Barrett-Leonard, J. G. Foster, Dr. E. J. Cohn, all on discontinuance of Fac. of Laws.

RESIGNATION. J. B. Hanson-Lowe (Geog.) to industrial research appt.

DEATH. G. E. Smith (Botany).

STUDENTS. Full-time: 7, all graduates. Part-time: 964, including 313 graduates.

DEGREES. B.A., 39; M.A., 4; Ph.D. (Arts), 1; B.Sc., 59; M.Sc., 9; Ph.D. (Sci.), 10.

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Founded 1895

Houghton St., Aldwych, W.C.2.
Telegrams—" Poleconics, Estrand."
Telephone : Holborn 9783-8.

CHAIRMAN OF COURT OF GOVERNORS—The BARON STAMP OF SHORTLANDS, G.C.B., G.B.E., LL.D., D.Sc., Sc.D., F.B.A.

VICE-CHAIRMAN—Sir DOUGAL O. MALCOLM, K.C.M.G., M.A.

DIRECTOR—A. M. CARR-SAUNDERS, M.A. Ox.

SECRETARY—W. ADAMS, B.A.

REGISTRAR—Miss E. V. EVANS, B.A.

LIBRARIAN—W. C. DICKINSON, M.A. St. And., D.Lit.

TEACHING STAFF

Accountancy

Rowland, S. W., LL.B., F.C.A. Lectr.

Anthropology, Social

Malinowski, B., Ph.D. Cracow, D.Sc. Prof.
Firth, R. W., M.A. N.Z., Ph.D. Reader.
1 Asst. Lectr.

Banking and Currency

Robertson, D. H., M.A. Camb., Litt.D. Harv., F.B.A. Cassel Prof.
Whale, P. B., M.Com. Birm., B.Sc. (Econ.) Reader.
1 Asst. Lectr.

Belgian Studies and Institutions

Cammaerts, E., C.B.E., LL.D. Glas. Prof.

Business Administration

Plant, A., B.Sc. (Econ.), B.Com. Cassel Prof.
Wilson, P. A., B.A. Ox. Lectr.
Edwards, R. S , B. Com. Lectr.

Colonial Administration [Lectr.

Mair, Lucy P., M.A. Camb., Ph.D.

Commerce and Industry, v. also Law, Transport

Condliffe, J. B., M.A., D.Sc. N.Z. Prof.
Benham, F. C. C., B.Sc. (Econ.), Ph.D. Cassel Reader.
Paish, F. W., M.A. Camb. Cassel Reader.
Anstey, Vera, D.Sc. (Econ.) Cassel Lectr.
Schwartz, G. L., B.A., B.Sc. (Econ.) Cassel Lectr.
Fowler, R. F., B.Com. Lectr.

Criminology

Mannheim, H., Dr.Jur. Königsberg. Lectr.

Demography

Kuczynski, R. R., Dr.Sc.Pol. Munich Reader.

Economics, v. also Social Economics

Robbins, L., M.A. Ox., B.Sc. (Econ.) Prof.

von Hayek, F. A., Dr.Jur., Dr.Sc. Pol. Vienna Tooke Prof.
Durbin, E. F. M., B.A. Ox. Lectr.
Thomas, Brinley, M.A. Wales, Ph.D. Lectr.
Bonn, M., Dr.Sc.Pol. Munich (S).
Coase, R. H., B.Com. Lectr.
Kaldor, N., B.Sc. (Econ.) Lectr.
1 Asst. Lectr.

English (as a foreign language)
Routh, H. V., M.A. Camb., D.Lit. (S).
Higgins, M. H., M.A. Edin. Asst. Lectr.

Ethnology, v. Anthropology

Finance, v. Banking

French, v. Modern Languages

French History and Institutions
Vaucher, P., D. ès L. Paris Prof.

Geography, v. also Commerce
Jones, Ll. Rodwell, B.Sc., Ph.D. Prof.
Stamp, L. D., B.A., D.Sc. (Econ. Geog.) Reader.
Ormsby, Mrs. Hilda R., D.Sc. (Econ.) Reader.
East, W. G., M.A. Camb. Lectr.
Beaver, S. H., M.A. Lectr.

German, v. Modern Languages

History, Economic, v. also Politics
Tawney, R. H., B.A. Ox., Litt.D. Manc. Prof.
Power, Eileen E. Le P., Litt.D. Manc., M.A. Camb., D.Lit. Prof.
Beales, H. L., M.A. Manc. Reader.
Judges, A. V., B.A. Reader.
1 Asst. Lectr.

International History
Toynbee, A. J., B.A., D.Litt. Ox. Stevenson Research Prof.
Webster, C. K., M.A., Litt.D Camb., F.B.A. Stevenson Prof.
Robinson, L. G., M.A. Ox. Reader.

International Relations
Manning, C. A. W., M.A., B.C.L. Ox. Montague Burton Prof.
..... Lectr.

Law, v. also p. 223
Allemès, F., L. ès L. Lille (Code Civil) (S).

Logic and Scientific Method
Wolf, A., M.A. Camb., D.Lit. Prof.

Modern Languages
Rose, W., M.A. Birm., Ph.D. (German) Cassel Reader.
Pickles, W., M.A. Leeds. (French) Lectr.
Wallas, May, M.A. Camb., Ph.D. (French) Lectr.
5 Asst. Lectrs., 3 Assts.

Politics and Public Administration
Laski, H. J., M.A. Ox. Prof.
Lees-Smith, Rt. Hon. H. B., M.A. Ox., D.Sc. (Econ.), M.P. (Pub. Admn.) Reader.
Finer, H., D.Sc. (Econ.) (Pub. Admn.) Reader.
Smellie, K. B., B.A. Camb. (Pub. Admn.) Lectr.
Greaves, H. R. G., B.Sc. (Econ.) Lectr.
Wilson, C. H., M.A. Glas. Lectr.
1 Asst. Lectr.

Psychology, Social and Industrial
Blackburn, J. M., Ph.D. Camb., B.Sc. (Econ.) (Social P.) Lectr.
Lectrs. on Industrial Psychology
Myers, C. S., C.B.E., M.A., M.D., Sc.D. Camb., L.R.C.P., M.R.C.S., F.R.S. (S).
Smith, May, M.A. Manc., D.Sc. (S).
Stephenson, A., B.Sc. (S).

Shipping, v. Transport

Social Economics
The Director Lectr.

(S) = Special Lectr., not on the School Staff.

Social Science and Administration, v. also Criminology

Lloyd, C. M., M.A. Ox. Head of Dept.
Eckhard, Edith V., M.A. Camb. Senior Tutor.
Hart, B., M.D., F.R.C.P., M.R.C.S. (Psychiatry) (S).
Stowell, T. E. A., M.D. Durh., F.R.C.S. (S).
6 Tutors, 3 Assts.

Lectrs. for Course in Mental Health

Burt, Prof. Cyril, M.A., D.Sc. Ox. (S).
Fildes, Lucy G., B.A., Ph.D. (S).
Lewis, Aubrey, M.D. Adel., M.R.C.P. (S).
Methven, J. C. W., M.R.C.S., M.R.C.P. (S).
Moodie, W., M.D., Ch.B. St. And., F.R.C.P., D.P.M. (S).
Penrose, L. S., M.A., M.D. Camb., M.R.C.P. (S).
Pritchard, E. A. Blake, M.A., M.D. Camb., M.R.C.P. (S).
Tredgold, A. F., M.D. Durh., F.R.C.P., M.R.C.S. (S).
Wilson, Isabel, M.D. Edin , D.P.M. (S).

Sociology, v. also Anthropology

Ginsberg, M., M.A., D.Lit. Martin White Prof.
Marshall, T. H., M.A. Camb. Reader.
Mannheim, K., Ph.D. Budapest. Lectr.

Statistics

Rhodes, E. C., B.A. Camb., D.Sc. Head of Dept., Reader.
Allen, R. G. D., M.A. Camb., Lectr.
Brown, F., B.Sc. (Econ.) Lectr.
1 Asst. Lectr.

Transport, v. also Commerce and Law

Stephenson, W. Tetley, M.A. Camb. Cassel Reader.
Ponsonby, G. J., M.A. Camb. Lectr.
Shanahan, E. W., D.Sc. (Econ.) (S).

(S) = Special Lectr., not on the School Staff.

GENERAL INFORMATION

Founded 1895. A School of the Univ. recognized in the Faculties of Economics and Political Science (including Commerce and Industry), of Laws, and of Arts (in History, Geography, Sociology and Anthropology).

Matriculated students are registered as Internal students of the Univ. with a view to the B.Sc. Econ., B.Com., LL.B. and B.A. (with Honours in Geog., Sociology, Anthrop. or History, or the General degree with Geog.), or to Higher degrees. Non-matriculated students can be registered for the Academic Diplomas in Geography and Public Administration, and for the School Certificates in Social Science, in Mental Health, and in International Studies. Post-graduate students may take the Academic Diplomas in Psychology, and Sociology and Social Administration.

The lectures and classes at the School are open also, under certain conditions, to those who have not matriculated and do not wish to pursue a full Univ. course—in particular to those engaged in banking, accounting, railway and other transport, commerce and industry, to civil servants and municipal officials, to teachers, and to those engaged in or qualifying for social work. To all these the School affords the opportunity of specialized or advanced study on particular topics. The School is open on the same terms to men and to women. Classes and lectures are given both in the day and in the evening.

The School offers special facilities for postgraduate research, under the

supervision of professors or otherwise. The *British Library of Political and Economic Science*, which includes the British Library of *Political Science*, the Edward Fry Library of *International Law*, and the Schuster Library of *Comparative Legislation*, also contains a number of special collections, such as the Acworth collection on Transport, the Hutchinson collection of works in all languages for and against Socialism, and other collections on Trade Unionism, Local Government and Public Administration. The Library is open not only to those who are taking courses at the School, but, by permission of the Director, also to any person desiring to utilize it for research or consultation.

The fee for a complete day course in Economics or Commerce, spread over 3 or 4 years, is 78 guineas; in Law the day fee is 28 guineas a year, and in Arts about £35 a year. In the case of evening students considerable reductions in these fees are made. The fees include privileges of Students' Common Rooms and Athletic Societies. Playing fields at Malden are available for members of the Students' Union.

Scholarships are awarded on the results of the University Intermediate Examns. There are entrance scholarships (including the Leverhulme Scholarships which may carry with them a maintenance grant of £180 p.a.), bursaries and valuable prizes. Two Research Studentships for Evening Students (equivalent to a remission of fees) open to grads. of the School. For open postgrad. Studentships, v. Appendix II. 9.

Publications: *Studies in Econ. and Pol. Sc.*; *Economica*, 15s. per annum, single copy 4s. 6d. *Politica*, 12s. per annum, single copy 3s. 6d., joint ann. subsn. 25s.; *The Annual Survey of English Law*, an annual bulletin of developments in English legislation, case-law and legal literature, 10s. 6d.; *Annual Digest of Public International Law Cases*, about 35s.; *Clare Market Review* (Students, usually twice a term). *Bulletin*—with supplements—of the *London and Cambridge Economic Service* of Statistics and Memoranda bearing on the current economic position, is published at the School, in co-operation with the Univ. of Cambridge and Harvard Univ., subs. £6 p.a. School *Calendar*, 2s. 6d. or (cloth) 3s. 6d. *Departmental pamphlets* free.

THE YEAR 1937–38

BENEFACTIONS. £25,000 from the Sir Ernest Cassel Trustees to endow headship of Modern Languages Dept., and £2000 p.a. for a limited period for the Dept. Donations in response to an appeal for funds to endow Dept. of Business Administration, as a result of which continuation of work of Dept. is assured for at least a further 7 yrs.

NEW BUILDINGS. Second block of new series of buildings completed, containing a large lecture-theatre, lecture-rooms, gymnasium, squash court and tutorial rooms.

NEW DEPARTMENT. New Department of Demography created.

NEW POSTS. Readership in Demography; readership instead of lectureship in Econ. Hist.; lectureships in Business Admin., Commerce, Criminology, Econ. (2), Political Sci. and Social Psychology.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. W. E. Rappard (Directeur de l'Institut Universitaire des Hautes Études Internationales), "The Struggle for the Liberation of International Trade since the War"; Prof. Gaston Jèze (Paris), "La Clause Or dans les emprunts publics d'état"; Prof. A. R. Radcliffe-Brown (Oxford), "Social Evolution"; Prof. G. W. Paton (Melbourne), "Whither Jurisprudence?"; Prof. F. H. Knight (Chicago), "Free Enterprise versus Collectivism."

RETIREMENT. Mrs. J. Mair retired from the Secretaryship of the School in July 1938 after seventeen years of service.

RESIGNATIONS. Prof. T. E. Gregory (Banking and Currency), on appt. as Economic Adviser to Govt. of India; D. W. Harding (Psychol.), on appt. as head of Dept. of Psychology at Liverpool Univ.; Dr. H. Lauterpacht (International Law), on appt. to Whewell Chair of International Law of Cambridge Univ.

STUDENTS. Full-time students, 1445; part-time students, 1553 (postgraduate students, 282; overseas students, 740).

DEGREES. B.A., 8; M.A., 6; LL.B., 17; LL.M., 6; B.Com., 41; M.Com., 1; B.Sc. (Econ.), 95; M.Sc. (Econ.), 41; Ph.D., 35; D.Sc. (Econ.), 1.

SOUTH-EASTERN AGRICULTURAL COLLEGE, WYE, KENT

Founded 1894

Telegrams: College, Wye. Stations: Ashford (S.R.), 5 m., Wye (S.R.) ½ m.
Telephone: Wye 1.

CHAIRMAN OF GOVERNING BODY—EDWARD HARDY, J.P.
PRINCIPAL—R. M. WILSON, B.Sc. (Agric.).
SECRETARY AND BURSAR—A. H. BIRD, M.A. Ox., Dip. Hort. (Wye).

TEACHING, AND RESEARCH AND ADVISORY STAFF

Agriculture
The Principal.
Vickers, V. R. S., Vice-Principal.
Fishwick, V. C., P.A.S.I., N.D.A., N.D.D.
Bryant, D. M., B.Sc. (Agric.), Ph.D.
Tinley, N. L., N.D.A., Dip. Agric. (Wye).
Hewison, N. V., Farm Manager.

Agric. Engineering
Davies, C., T.D.A.
Smyth-Homewood, G. R. B., Dip. Agric. (Wye).
Martin, A. G.
Head, R. K.
Blezard, S. E.

Botany
Pearl, R. T., B.Sc., A.R.C.S., D.I.C.
Harrison, R. M., B.Sc., A.R.C.S.
Hunt, I. V., M.Sc.

Chemistry
Harwood, S. D. F., M.A., F.I.C.
Cole, L. W., M.Sc., Dip. Agric. (Wye).
Prowse, I. B., B.Sc. (Agric.), Dip. Agric. (Wye).

Economics
Wyllie, J., B.Sc. (Agric.), N.D.A., N.D.D.

Estate Management
Bescoby, H. B., P.A.S.I., N.D.A.
Green, N. K., B.Sc. (Agric.), P.A.S.I.

Fruit-growing and Market Gardening
Miskin, W.
Hunt, J. L., Dip. Hort. (Wye).
Lamberton, W., N.D.H.

Geology and Zoology
Brade-Birks, S. G., D.Sc.
Austin, M. D.
Rolfe, S. W. H., B.Sc. (Agric.), Dip. Agric. (Wye).

Poultry
Rhodes, F. W., D.S.O.
Fermor, C. E.

Veterinary Science and Bacteriology
McEwen, A. D., D.Sc., M.R.C.V.S.
Paterson, J. D., M.R.C.V.S.

Research and Advisory Staff

Chemistry
Pizer, N. H., M.Sc., F.I.C., Ph.D.
Furneaux, B. S., M.Sc., Dip. Agric. (Wye).
Tinsley, J., B.Sc. (Agric.)

Dairy Bacteriology
Barkworth, H., M.C.

Economics
Wyllie, J., B.Sc. (Agric.), N.D.A., N.D.D.

Jolly, A. L., B.A., M.Sc.
Halls, H. G.

Entomology

Jary, S. G., B.A., Dip. Agric Camb.
Austin, M. D.

Mycology and Hops

Ware, W. M., D.Sc.
Burgess, A. H., B.Sc. (Agric.), Dip. Agric. (Wye).

Pig Husbandry

Fishwick, V. C., P.A.S.I., N.D.A., N.D.D.

GENERAL INFORMATION

Founded 1894. A School of the Univ. in Science (Agric. and Hortic.).

LIBRARY, 4000 vols. LABORATORIES: Chem., Biol., Bact., Mycol., Entom., Vet. Sci., Hop Research.

The College (Residential) provides courses of instruction in Agriculture (British and Colonial) and Horticulture in preparation for the B.Sc. (Agric.), B.Sc. (Hort.), Dip. Agric. (Wye), Dip. Hort. (Wye), N.D.A.; examinations of the Chartered Surveyors' Institution and of the Land Agents' Society. Farms, 585 acres, comprising arable, pasture, orchards, forestry, hop plantations, poultry, glasshouses, and nurseries.

The instruction meets the needs of young men who intend to farm at home or abroad, or desire posts as managers of estates, lecturers, and organizers in agric. and on the agric. staffs of Colonial Govts. The Appointments Bureau gives all possible assistance in placing qualified students in suitable employment. FEES, inclusive for board, lodging, and tuition: British subjects, £150 p.a.; others, £180 p.a. Tuition only—British subjects, £85; others, £115 p.a. Reduced fees for ratepayers of Kent, Surrey, and Sussex.

PUBLICATIONS: *Journal*, *Prospectus*.

THE YEAR 1937–38

RETIREMENT. Dr. W. Goodwin (Chemistry—Research).

STUDENTS. Full-time: 169.

DEGREES. B.Sc. (Agric.), 10; B.Sc. (Hort.), 3.

SCHOOL OF ORIENTAL AND AFRICAN STUDIES

Founded 1916

Vandon House, Vandon Street, S.W.1.
Telephone: School—Whitehall 4735.
Library—Whitehall 5309.

PATRON—H.M. THE KING.
VISITOR—THE PRESIDENT OF THE BOARD OF EDUCATION.
CHAIRMAN—The Right Hon. LORD HARLECH, G.C.M.G., B.A.
DIRECTOR—Professor R. L. TURNER, M.C., M.A., Litt.D. Camb.
SECRETARY—F. J. R. BOTTRALL, M.A. Camb.

TEACHING STAFF

Acholi

Kitching, Rt. Rev. A. L., M.A. Camb. Lectr.*

African, Central, Languages

Huntingford, G. W. B. Lectr.*

African Phonetics and Linguistics, v. Phonetics and Linguistics, African

African, West, Languages

Ward, Ida C., B.Litt. Durh., D.Lit. Reader.

Amharic

Athill, Major L. F. I. Lectr.*
Rey, Lt.-Col. C. F., C.M.G. Lectr.*

Arabic

Tritton, A. S., M.A. Lond. and Ox., D.Litt. Edin. Prof.
Cooke, Capt. R. S., O.B.E. (Iraq. A.) Lectr.*
Heyworth-Dunne, J., B.A. Lectr.
Gomaa, Sheikh M. M., B.A. (Egyptian A.) Lectr.
Zafir, Kadry, M.A. Camb. Lectr.
Kitchin, D. H., LL.B. (Sudanese A.) Lectr.*
Smith, Margaret, M.A. Camb., Ph.D., D.Lit. (Syrian A.) Lectr.*
Walker, John, M.A. Glas. (and A. Epigraphy) Lectr.*

Armenian

Topalian, S. Lectr.

Assamese and Khasi

Gurdon, Lt.-Col. P. R. T., C.S.I. Lectr.*
Sayeedulla, S. M. (Assamese) Lectr.*

Bengali

Summers, Gertrude M. Lectr.

Burmese

Stewart, J. A., C.I.E., M.C., M.A., LL.D. Aberd., I.C.S. Reader
Dunn, C. W., C.I.E., M.A. Camb.*
Lat, Kin Maung, A.T.M., B.A.*

Chinese

Edwards, E. Dora, M.A., D.Lit. Reader.
Simon, W., Ph.D. Berlin Reader.
Yu, Dawchyuan Lectr.
Lu, Chien-Hsün, Ph.D. Kiel (Mandarin) Lectr.

* On panel of additional lectrs., not on regular staff.

Duncan-Whyte, Margaret M. (Swatow) Lectr.*
Elwin, Rosa M. (Ningpo, Shanghai and Hangchow) Lectr.*
Maclagan, Rev. P. J., M.A., D.Phil., D.D. Edin. (Swatow) Lectr.*
Steele, Rev. J., M.A., D.Lit. (Swatow) Lectr.*
Winn, Cecel M. (Mandarin) Lectr.*
Wood, A. E., M.A. Ox. (Cantonese) Lectr.*
Waley, A. D., B.A. (C. Poetry) Lectr.*

ChiNyanji

How, Edith A. Lectr.*

Duala

Christol, F. H. Lectr.*

Epigraphy, Indian

Ratnasuriya, M. D., Ph.D. Lectr.

Georgian

Gugushvili, A. Lectr.*

Gujarati

Hartshorne, J. F. B., B.A. Ox. Lectr.*

Hausa

Bargery, Rev. G. P., D.Lit. Reader.
Vischer, Major H., C.M.G., C.B.E. Lectr.*

Hebrew, Modern

Wartski, I., B.A. Lectr.

Hebrew Palæography

Birbaum, S., D.Phil. Würzb. Lectr.

Hebrew Philosophy

Rawidowicz, S., Ph.D. Berlin Lectr.*

Hindustani

Bailey, T. G., M.A., B.D., D.Litt. Edin. (Urdu & H.) Nizam's Reader.
..... (Urdu & Hindi) Lectr.

History and Culture of British Dominions in Asia, especially India, v. also Sansk.

Dodwell, H. H., M.A. Ox. Prof.
Furnivall, J. S., M.A. (Burmese H.) Lectr.*
Lewis, B., B.A. (Islamic H.) Lectr.
Philips, C. H., M.A. Liv. (Indian H.) Lectr.
Ratnasuriya, M. D., Ph.D. (Indian H.) Lectr.
Hart, Lt.-Colonel E. G., D.S.O., M.A. (Indian H.) Lectr.*

History and Literature, Buddhist

Davids, Mrs. C. A. Rhys, M.A., D.Lit. Lectr.*

History of the Near East

Toynbee, Prof. A. J., B.A., D.Litt. Ox. Lectr.*

Indian Archæology

Richards, F. J., M.A. Ox. Hon. Lectr.

Indian Art

Codrington, K. de B., M.A. Hon. Lectr.

Indian Philosophy

Heimann, Betty, Ph.D. Halle. Lectr.

Iranian Studies

Henning, W., D.Phil. Gött. Lectr.

Islamic Studies

Ross, Prof. Emer. Sir E. Denison, C.I.E., Ph.D. Strass., D.Lit. Lectr.*

Japanese

Isemonger, Commdr. N. E., R.N. (retd.) Lectr.
Yoshitake, S. Lectr.
Matsukawa, B. Lectr.*
Mere, G. Lectr.*

* On panel of additional lectrs., not on regular staff.

KiKuyu

Kenyatta, J. Lectr.*
Leakey, L. S. B., M.A., Ph.D. Camb. Lectr.*

Law

FitzGerald, S. G. V., M.A. Ox., LL.D. (Indian L.) Reader.
MacGregor, A., M.A. Edin. (Burmese Buddhist L. and History) Lectr.*

Linguistics, v. Phonetics

LuGanda

Daniell, Ven. Archdeacon E. S., O.B.E., M.A. Lectr.*

Malay

Winstedt, Sir Richard O., K.B.E., C.M.G., M.A., D.Litt. Ox. Reader.
Owen, G. N. Lectr.*

Malay and Old and Medieval Mon

Blagden, C. O., M.A. Ox., D.Litt. Rangoon Lectr.*

Malayalam

Menon, T. N., B.A. Madras Lectr.*

Maltese

Dessoulavy, Rev. C. L. Lectr.*

Manchu

Simon, W., Ph.D. Berlin Lectr.

Marathi

Lambert, Hester M., M.A. Lectr.
Master, A., C.I.E., B.A. Ox. Lectr.*

Mende

Crosby, Rev. K. H., B.A., B.D. Lectr.*

Mongolian

Yoshitake, S. Lectr.
Yu, Dawchyuan Asst. Lectr.

Oriya

Pike, Rev. H. W., B.A., B.D. Lectr.*
Wilkins, Rev. G. S. Lectr.*

Pali

Stede, W., Ph D. Leip. Lectr.

Pashto

Bokhary, S. G. A. Lectr.*

Persian

Minorsky, V. Prof.
Khan, G. H. Dārāb, M.A. Lectr.
Taqizadeh, S. H. Lectr.

Phonetics and Linguistics

Lloyd James, A., M.A. Camb. Prof.
Firth, J. R., M.A. Leeds. (Linguistics and Indian P.) Lectr.
Tucker, A. N., M.A. Cape T., Ph.D. (Compar. Bantu & Sudan Langs.) Lectr.
Honikman, Beatrice, M.A. Cape T. (African Languages) Lectr.

Polynesian, Melanesian, Micronesian, and Papuan

Capell, Rev. A., M.A. Syd., Ph.D. Lectr.*
Ivens, Rev. W. G., M.A., D.Litt. N.Z., Litt.D. Melb., F.R.A.I. (Melanesian) Lectr.*

Sanskrit

Turner, R. L., M.C., M.A., Litt.D. Camb. Pt.-time Prof.
Barnett, L. D., C.B., M.A. Camb., Litt.D. Vict. (S. & Anc. Indian Hist.) Lectr.
Stede, W., Ph.D. Leip. Lectr.
Rylands, C. A., M.A. Camb. Lectr.
Heimann, Betty, Ph.D. Halle Lectr.*
Allan, J., M.A. Edin., F.S.A. (Indian Palæog.) Lectr.*
Burrow, T., M.A , Ph.D. Camb Lectr.*

Sesuto

Stevens-Guille, H. de C., M.A. Ox. Lectr.*

Shan

Inman, Capt. H. J. Lectr.*

* On panel of additional lectrs., not on regular staff.

Siamese
Le May, R., Ph.D. Lectr.*
Michell, J. Lectr.*
Quaritch-Wales, H. G., M.A. Camb., Ph.D. Lectr.*

Sikololo
Christol, F. H. Lectr.*

Sindhi
Kazi, I. Lectr.*

Sinhalese
Ratnasuriya, M. D., Ph.D. Lectr.

Suto
Christol, F. H. Lectr.*

Swahili
Ashton, Mrs. Ethel O. Lectr.

Tamil and Telugu
Pathy, C. S. K., M.A. Edin. Lectr.

Tibetan [Lectr.*
Shuttleworth, H. Lee, M.A. Ox.
Simon, W., Ph.D. Berlin Lectr.
Yu, Dawchyuan Asst. Lectr.

Turki
Wingate, Rachel, M.A. Camb. Lectr.*

Turkish
Mahir, A. Lectr.*
Rizabey, A. Lectr.
Topalian, S. Lectr.

Twi
Addo, Akufo Lectr.*

Urdu, v. Hindustani

Yao
How, Edith A. Lectr.*

Yoruba
Solanke, Ladipo, M.A., B.C.L. Durh., LL.B. Lectr.*

* On panel of additional lectrs., not on regular staff.

GENERAL INFORMATION

Established by Royal Charter, 1916. A School of the University in Arts. The work is concentrated in six Departments: I. India, Burma and Ceylon. II. Far East. III. Near and Middle East. IV. Africa. V. Phonetics and Linguistics. VI. Oriental History and Law. Teaching is provided in many languages and in the history, laws, religions and customs of Oriental and African countries. Special facilities for research work.

LIBRARY. 81,350.

FEES. From 10 gs. a year. I.C.S. probationers, 40 gs.

STUDENTSHIP, ETC. Forlong Research Studentship, value £150, may be available every third yr. Other small scholarships may be awarded annually. Exhibitions carrying exemption from fees, limited to 4 at any one time, open to Honours graduates of a British Univ. who are of European nationality; intended for those wishing to make a career in some branch of Oriental or African studies.

PUBLICATIONS: *Calendar* (Oct.), 1s. 6d.; *Prospectus* (July); *Bulletin*, 15s. per part.

THE YEAR 1937–38

BENEFACTIONS. Contributors to Ahad Ha'am Lectureship in Modern Hebrew, £300. Anglo-Iranian Oil Co., Ltd., £2000 spread over 4 years. Asiatic Petroleum Co., Ltd., £262 : 10s. p a. Barclay's Bank, Ltd. (Dominion, Colonial and Overseas), £50. Burmah Oil Co., Ltd, £250, and Messrs. Steel Bros. & Co., Ltd., £25 for Burmese Studies. Corporation of the City of London, £250 p.a. H.E.H. The Nizam's Government of Hyderabad and Berar, £250 for Readership in Urdu. National Bank of India, £50. Nathan and Adolphe

Harndler Charity and others, £300 for Hebrew Palæography. Iraq Petroleum Co., Ltd., £250 for Arabic and Islamic Studies. The Ottoman Bank, £21. Trustees of the Parsee Punchayet Funds and Properties, Sir Dorabji Tata Trust, Trustees of Sir Ratan Tata Charities and N.W. Wadia Charities, £100 each p.a. for Iranian Studies.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Dr. C. A. F. Rhys Davids lectured on " What he will not have taught," and " The Essentials of Religion," at Oxford. Dr. R. Le May lectured on " Sculpture in Siam," at Oxford.

RESIGNATION. R. T. Butlin (Phonetics), appointed to the Institute of English Studies in Athens.

STUDENTS. Full-time: 85. Part-time: 364.

DEGREES. B.A., 8; M.A., 2; Ph.D., 9.

BEDFORD COLLEGE FOR WOMEN

Founded 1849

Inner Circle, Regent's Park, N.W.1.

Telephone: Welbeck 5743.

VISITOR—The Most Hon. the MARQUESS OF CREWE, K.G., G.C.V.O., P.C.

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir FRANCIS ACLAND, Bart., M.P.

PRINCIPAL—Miss G. E. M. JEBB, M.A. Camb.

RESIDENT TUTOR—Miss M. A. CULLIS, O.B.E., M.A. Ox.

SECRETARY—Miss O. E. MONKHOUSE, M.B.E., B.A.

REGISTRAR—Miss E. M. E. HAYDON, M.A.

LIBRARIAN—Miss J. A. PATERSON.

TEACHING STAFF

Botany

Jones, W. Neilson, M.A. Camb. Hildred Carlile Prof.
Halket, Miss A. C., D.Sc. Lectr.
Warburg, E. F., M.A., Ph.D. Camb. Lectr.
1 Pt.-time Demr.

Chemistry, Inorganic and Physical

Spencer, J. F., Ph.D. Bres., D.Sc. Liv., F.I.C. Prof.
Trew, Miss V. C. G., Ph.D. Lectr.
Hollens, Miss W. R. A., B.Sc., Ph.D. Demr.
Marks, Mrs., Ph.D. Glas. Demr.

Chemistry, Organic [Reader.

Turner, E. E., M.A. Camb., D.Sc.
Lesslie, Miss M. S., M.A., B.Sc., Ph.D. St. And. Lectr.
Jamison, Miss M. M., Ph.D. Demr.

Classics

Tarrant, Miss D., M.A. Camb., M.A., Ph.D. Lond. (Greek) Prof.
Onians, R. B., M.A. Liv., Ph.D. Camb. (Latin) Hildred Carlile Prof.
MacNeice, F. L., M.A. Ox. Lectr.
Andrewes, Miss M., M.A. Lectr.
Tucker, G. M., M.A. Camb. Lectr
1 Asst. (part-time).

Dutch

Renier, G. J., Ph.D. (Dutch Hist. and Instns.) Reader.
Weevers, T., Lit.D. Leiden (Lang. and Lit.) Reader.

Economics, v. Social Studies

English Language and Medieval Lit.

Thomas, P. G., M.A. Camb., Litt.D. Liv. Prof.
Tillotson, Mrs. K. M., B.A., B.Litt. Ox. Pt.-time Lectr.

English Literature

Wilson, F. P., M.A., D.Litt. Birm., M.A., B.Litt. Ox. Hildred Carlile Prof.
Ellis-Fermor, Miss U. M., M.A., B.Litt. Ox. Reader.
Covernton, Miss A. B., Final Eng. Hons. Ox. Lectr.
Butt, J. E., M.A., B.Litt. Ox. Lectr.

French Language and Literature

Turquet, Mrs. Gladys R., M.A., D.Lit. Prof.
Legros, René P., M.A. Edin. and Ox. Reader.
Murray, Miss J., M.A. St. And., D. de l'U. Paris. Reader.
Terry, Mrs., M.A. Lectr.

Geography

Hosgood, Miss B., B.A. Reader.
Smee, Miss D. K., M.A., Ph.D. Lectr.
Timberlake, Miss E. M., B.Sc. Lectr.
Matthews, H. A., B.A., Ph.D. Lectr.
1 visiting Lectr.

Geology [Reader.

Hawkes, L., D.Sc. Durh., F.G.S.
Dix, Miss E., D.Sc. Wales Lectr.
1 Demr. (part-time).

German [Prof.

Purdie, Miss E., M.A. Liv., D.Lit.
Massey, Miss I. M., Ph.D. Marb. Reader.
1 Asst. (pt.-time)

History, Ancient

Cary, M., M.A., D.Litt. Ox. Prof

History, Medieval and Modern

Penson, Miss L. M., Ph.D. Prof.
Darlington, R. R., Ph.D. Reading, B.A. Reader.
Tooley, Miss M. J., M.A. Lectr.
Greaves, R. W., M.A., D.Phil. Ox. Asst.

Italian

Gutkind, C. S., Dr. phil. Heidelberg Reader.
Saunders, Mrs., M.A., D.Lit. Lectr.

Mathematics

Simpson, H., M.A., D.Sc. Ox. Prof.
Marshall, J., M.A., D.Sc. St. And. Reader.
Fowler, Mrs., Math. Trip. Camb., M.A. Pt.-time Lectr.
Weevers, Mrs., M.Sc. Lectr.

Philosophy

Stebbing, Miss L. S., M.A., D.Lit. Prof.
Mace, C. A., M A Camb., D.Lit. (Psychol.) Reader.
Acton, H. B., B.A., D.Phil. Ox. Lectr.
Folley, Mrs., M.A. Manc., Ph.D. (Psychol.) Asst.

Physics

Wilson, W., Ph.D. Leip., D.Sc., F.R.S. Hildred Carlile Prof.
Saltmarsh, Miss M. O., Math. Trip. and Nat. Sci. Trip. Camb, B.A. Dub., Ph.D. Reader.
Cattermole, Miss J., B.Sc., Ph.D. Demr.
Davies, W. T., M.A. Camb. Demr.

Physiology

Edkins, Mrs., D.Sc. Reader.
Murray, Miss M. M. A., D.Sc. (Biol. Chem.) Lectr.
Lewis, Miss A. G., B.Sc. Demr.

Sociology, Social Studies and Economics

Mess, H. A., B.A., Ph.D. Reader.
The Principal (Econ.) Lectr.
Williams, Mrs., B.A. Manc. (Econ.) Lectr.
Pinchbeck, Miss I., M.A., Ph.D. Lectr.
Rooff, Miss M. M., B.A. Tutor.
Bridges, Miss D., S.R.N. Tutor.

Zoology

Boulenger, C. L., M.A. Camb., D.Sc. Birm. Prof.
Ince, Miss F. E., M.Sc. Lectr.
Murray, P. D. F., M.A. Camb., D.Sc. Syd. Demr.
Needham, A. E., B.A., B.Sc. Ox. Demr.

Stevenson Lecturer

1939, Professor Ernest Barker, Litt.D., D.Litt., LL.D., "The Significance of the Community Centre in English Social and Political Life."

Fawcett Lecturer

1939, Miss Hilda Martindale, C.B.E. (formerly of the Home Office and H.M. Treasury), "Women as Civil Servants—A History of the last Seventy Years."

GENERAL INFORMATION

Founded 1849. A School of the Univ. in Arts and Science. Tate LIBRARY and Wernher Reading-Room contain 59,000 vols. (not including pamphlets). Special facilities for Research work in the LABORATORIES (Bact., Bot., Chem., Geol., Physics, Physiol., Psych., and Zool.).

Minimum age for admission, 18. Students are prepared for all examns. of the Univ. of London in Arts and Science. The College is recognized by the Univ. for purposes of the First M.B., and in Chem. and Physiol. for the Second M.B. Examn.

RESIDENTIAL accommodation for 75 students in the Coll., for 85 at Bedford College House (*Warden*—Miss E. Herdman, M.A. Ox.), and 62 at Notcutt House (*Warden*—Miss M. S. Crewdson, M.Sc.). FEES (inclusive annual), for tuition: Interm. Arts—42 gs.; B.A.—31 to 38 gs.; M.A.—8½ to 15 gs.; Interm. Science and B.Sc. Pass—53 gs.; B.Sc. Hons.—38 to 53 gs.; M.Sc. and Ph.D.—15 to 21 gs. Residence with board—78 to 99 gs. Union Society—16s.; Athletic Union—26s.

SCHOLARSHIPS for graduates. Three for research in Arts or Science—Amy Lady Tate, £120 p.a. for 2 yrs., Beilby Research, £120, Henrietta Busk, £60; Gamble, £35; Notcutt Travelling Studentship, £200 for session 1940–41; Holland Crompton Memorial Scholarship for research in Chem., £30 (1940), v. also Appendix II. 9.

PUBLICATIONS: *Calendar*, post free, 3s. 6d.; B.C. Magazine (Students).

THE YEAR 1937–38

BENEFACTIONS. Mannering Legacy of £1000 for endowment of Entrance Scholarship. Pollock Legacy of £100. Gift of £213 for increased endowment of Henrietta Busk Scholarship. Gift of £50 for Scholarship.

CONFERRED TITLE. Title of Professor of Ancient History in Univ. of London conferred on Dr. M. Cary, Head of Dept. of Ancient History.

RESIGNATION. S. Garside (Bot.).

RETIREMENT. Miss A. E. Lindsell (Warden of Bedford College House).

PUBLIC LECTURES GIVEN AT COLLEGE. William A. Robson (Stevenson Lecture), "A Critique of London Government"; T. Weevers, "Joost van den Vondel: A Tercentenary"; Louisa Garrett Anderson (Fawcett Lecture), "Elizabeth Garrett Anderson, M.D."; Charles Morgan, "Contemporary English Literature," 3 lectures; Dr. Robert Freyhan, "Early Mediæval Painting on the Continent and in England," 2 lectures; Professor R. H. Tawney (Hobhouse Memorial Lecture), "Education and Social Policy"; Professor Dr. Hermann Schneider, "Germanische Götterdichtung," 3 lectures; Professor Edgar Rubin, "Experience and Perception, Thinking, Feeling," 3 lectures; James G. Mann, "Mediæval Armour," 4 lectures.

STUDENTS. Full-time: 529, including 35 graduates. Part-time: 79, including 18 graduates.

DEGREES. B.A., 86; M.A., 2; Ph.D. (Arts), 2; D.Lit., 1; B.Sc., 45; M.Sc., 5; Ph.D. (Science), 5.

ROYAL HOLLOWAY COLLEGE FOR WOMEN

Founded 1886

Englefield Green, Surrey.
Telephone: Egham 114.

CHAIRMAN OF THE GOVERNORS—H.R.H. PRINCESS ALICE, COUNTESS OF ATHLONE.

PRINCIPAL—Miss J. R. BACON, M.A. Camb.

SECRETARY TO THE GOVERNORS—Mrs. M. R. AKEHURST.

TEACHING STAFF

Botany [Sr. Lectr.
Blackwell, Miss E. M., M.Sc. Liv.
Madge, Miss M. A. P., Ph.D., B.Sc. Staff Lectr. & Demr.

Chemistry
Moore, T. S., M.A. Ox. Prof.
Plant, Miss M. M. T., Ph.D. Birm. Lectr.
Murray, Miss A. R., B.A., B.Sc., Ph.D. Ox. Asst. Lectr. & Demr.

Classics
Sleeman, J. H., M.A. Prof.
Woodward, Miss A., M.A. Camb. Sr. Lectr.
Fergusson, Miss M. B., M.A. Camb. and St. And. Lectr.

English [Reader.
Willcock, Miss G. D., M.A.
Green, Miss H. A. C., M.A. Lectr.
Tompkins, Miss J. M. S., M.A., D.Lit. Asst. Lectr.

French [Reader.
Honey, Miss M. E. D., M.A.
McWilliam, Miss N., M.A. Edin. Lectr.
Legge, Miss M. D., B.A., B.Litt. Ox. Asst. Lectr.
Grand d'Esnon, Mlle. B. (Conversation) Assistante.

German [Sr. Lectr.
Delp, Miss W. E., D. de l'U. Paris
Richey, Miss M. F., M.A., D.Lit. Staff Lectr.

History [Prof.
Johnstone, Miss Hilda, M.A. Manc.
Powell, Miss I. G., M.A. Lectr.
Deanesly, Miss M., M.A. Camb. Asst. Lectr.

Mathematics [Prof.
Baker, B. B., D.Sc. Edin., M.A.
Pick, Miss M., M.A. Sr. Lectr.
Sargent, Miss W. L. C., M.A. Asst. Lectr.
Rees, Miss M. R., M.Sc. Liv. Asst. Lectr.

Physics
Horton, F., Sc.D. Camb., D.Sc., F.R.S. Prof.
Smith, C. J., Ph.D., M.Sc. Lectr. & Demr.
Williamson, Miss E. M., B.Sc. Asst. Demr.

Zoology
Fretter, Miss V., B.Sc., Ph.D. Pt.-time Lectr. & Demr.

Art

Drawing and Painting
Carey, C. W. Teacher.

Music [Lectr. & Director.
Barker, Miss S. M.
3 Visiting Teachers.

GENERAL INFORMATION

Opened in 1886. 19 miles from London. A School of the Univ. in Arts and Sci. LIBRARY, 26,615 vols. LABS.: Bot., Chem., Physics: Botanic Gardens. Area, 95 acres. Residential accommodation for over 200 students and staff. Courses for first and higher degrees in Arts and Sci. Incl. FEES for tuition and residence: £144 a yr. Entrance Scholps., £80, etc.; postgraduate studentships. PUBLICATIONS: *Calendar*, 2s. post free; R.H.C. *Letter* (Old Students' Assn.).

THE YEAR 1937–38

STUDENTS. Full-time: 188, including 6 graduates.

DEGREES. B.A., 25; M.A., 4; B.Sc., 22.

WESTFIELD COLLEGE, HAMPSTEAD

Founded 1882

Kidderpore Avenue, N.W.3.

Telephone : Hampstead 1632.

CHAIRMAN OF COUNCIL—The Rt. Hon. Sir THOMAS INSKIP, P.C., C.B.E., K.C., M.P.

PRINCIPAL—Miss DOROTHY CHAPMAN, M.A., St. And. (to 30.9.39).
Mrs. J. L. STOCKS, B Sc. Lond. (from 1.10.39).

SECRETARY TO COUNCIL—Miss EVELYN C. GEDGE, M.A. Camb.

TEACHING STAFF

Biochemistry

McKie, Phyllis V., M.Sc., Ph.D. Wales, D.Sc. Lectr.

Botany

Delf, Ellen M., B.A. Dub., D.Sc., F.L.S. Reader.

Martin, Margaret T., M.Sc. Lectr.

Conway, Verona M., B.A. Camb. Asst. Lectr.

Classics

Dyson, G. W., M.A. Camb. Lectr.

Barratt, Christine, M.A. Ox. Lectr.

English Lang. and Lit.

Davis, B. E. C., M.A. Ox. Reader.

Serjeantson, Mary S., M.A. Liv., D.Phil. Ox. Reader.

Galway, Margaret, M.A. Belf. Asst. Lectr.

French [Reader.

Robertson, Mysie E. I., M.A. Edin., D. ès L. Paris.

Crosland, Mrs. J., M.A. Pt.-time Lectr.

German

Craig Houston, Gertrude A., B.A. Belf., M.A. Lond. Sr. Lectr.

History

Sykes, Rev. N., M.A. Ox. and Leeds, D.Phil. Ox. Prof.

Martin, Eveline C., M.A., Ph.D. (Imp. H.) Reader.

Hill, Rosalind M. T., B.A., B.Litt. Ox. Lectr.

Mathematics, Pure and Applied

Stanley, Gertrude K., B.Sc. Ox., M.Sc. Reader.

Jackson, J. M., Ph.D. Camb., B.Sc. Lectr.

Taussky, Olga, D.Phil. Vienna Asst. Lectr.

GENERAL INFORMATION

Founded in 1882 by Miss Dudin Brown, the college is undenominational, but the Principal must be a member of the Church of England. Near the S.W. corner of Hampstead Heath ; residential accomm. for 150 students. A School of the Univ. in Arts.

Students are not admitted under the age of 18, and are required to pass an Entrance examn. Approved courses (Hons. and Pass) in the Fac. of Sci. in Bot. and Maths. are provided, as well as in Arts. Two Research Studentships are offered each year to graduates of any Univ., v. App. II. 1. *Fees* : tuition from 38 to 53 gs., residence £90 per session. There is an Old Students' Assocn.

PUBLICATIONS. *Prospectus* (July); *Report* (October); *Hermes* (Students' Mag.).

THE YEAR 1937–38

BENEFACTIONS. Three anonymous donations of £1000.

NEW BUILDINGS. Two new houses bought for extra accommodation.

VISITS OF STAFF TO OTHER UNIVERSITIES. Miss G. K. Stanley, to Princeton, U.S.A.; Miss M. T. Martin, to Cape Town, S. Africa.

RESIGNATIONS. Mme. Laarman (French), A. Turquet (French), Miss Whittaker (Classics).

STUDENTS. Full-time: 152, including 4 graduates. Part-time: 2, both graduates.

DEGREES. B.A., 30; M.A., 1; B.Sc., 12; Ph.D., 1; Aegrotat., 1.

KING'S COLLEGE OF HOUSEHOLD AND SOCIAL SCIENCE

Founded 1928

Campden Hill Road, W.8.
Telephone : Western 3704.

WARDEN—Miss HELENE REYNARD, M.A. Ox.

TEACHING STAFF

Biology
Esdaile, Philippa C., D.Sc. Manc. [Reader.
Crofts, Doris, M.Sc. Lectr.
Gardiner, Phyllis, B.Sc. Asst. Lectr.

Chemistry
Tinkler, C. Kenneth, B.Sc. Lond. and Wales, D.Sc. Birm. Prof.
Jackman, Agnes (Mrs.), B.Sc., A.I.C. Lectr.
Kernahan, Patricia (Mrs.), B.Sc. Asst. Lectr.
Thompson, Mary C., Ph.D. Asst. Lectr.

Economics and Business Affairs
The Warden Lectr.
Stanners, Harold, B.Sc. (Econ.) Lectr.

Household Work
Lindsay, Jessie Sr. Lectr.
Wood, Edith Lectr.
Tress, Helen Lectr.
Craig, Marjorie Asst. Lectr.
Chappell, Gweneth M., B.Sc. Asst. Lectr.

Hygiene and Bacteriology
Proctor, Ruth E., M.A., M.B., Ch.B. St. And., D.P.H. Lectr.
Dukes, C. E., O.B.E., M.D. Edin., M.Sc., D.P.H. Lectr.

Physiology
Mottram, V. H., M.A. Camb. Prof.
Hartwell, Gladys A., D.Sc. Lectr.
Clifford, Winifred M., M.Sc. Asst. Lectr.
Grant, Margaret W., B.Sc. Asst. Lectr.

Physics
Dillon, Teresa J., M.Sc. Lectr.
Andrewes, U., Ph.D. Asst. Lectr.

Psychology
Pinard, W. J., M.A. S.A., M.Ed. Harv., Ph.D. Lectr.

GENERAL INFORMATION

Formerly a dept. of King's Coll. for Women ; since 1928 an independent School of the Univ. Residential accommodation (Queen Mary's Hostel) for 129 students.

Full degree courses for B.Sc. in Household and Social Science. *Fees*: For tuition, 45 gs. ; residence, 75 to 93 gs. per session.

PUBLICATIONS : *Prospectus ; Students' Magazine.*

THE YEAR 1937–38

STUDENTS. Full-time : 263, including 7 graduates. Part-time : 30.

DEGREES. B.Sc. (Household and Soc. Sci.), 2nd Class Hons., 10 ; Pass, 33.

THEOLOGICAL SCHOOLS OF THE UNIVERSITY

APPOINTED AND RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated by symbols thus:

NEW COLLEGE, LONDON (N.).
KING'S COLLEGE THEOLOGICAL DEPT. (KT.).
RICHMOND COLLEGE (R.).
ST. JOHN'S HALL, HIGHBURY (J.).

Theology

*Brown, Rev. Prof. Canon S. L., M.A., D.D. Ox. (KT.)
*Cave, Rev. Prof. S., M.A. Camb., D.D. Glas. and Lond., B.A. (N.).
*Clogg, Rev. Prof. F. B., M.A. Camb., B.D. (R.).
Davies, Rev. W. A., M.A. Ox. and Wales, B.D. (N.).
Dimond, Rev. S. G., M.A. (R.).
Gilbert, Rev. T. W., M.A., D.D. Ox. (J.).
Hanson, Rev. Preb. R., M.A. Ox., B.D. (KT.).
*Hardman, Rev. Prof. O., D.D., M.A. (KT.).
Hollis, Rev. F. J., D.D. (KT.).
*Hooke, Prof. S. H., M.A. Ox., B.D., B.A. (KT.).
Jay, Rev. E. G., M.A. Leeds (KT.).
Nowell-Rostron, Rev. S. (J.).
*Relton, Rev. Prof. H. M., D.D. (KT.).
*Smith, Rev. Prof. C. R., B.A., D.D. (R.).
Smith, Rev. F. H., D.D. (KT.).
*Tasker, Rev. Prof. R. V. G., M.A. Camb. (KT.).
*Waterhouse, Rev. Prof. E. S., M.A., D.D. (R.).
Woolf, Rev. B. Lee, M.A., B.D., B.Sc., Ph.D. Edin. (N.).

* Appointed Teacher.

GENERAL INFORMATION

NEW COLLEGE, HAMPSTEAD (Congregational), 527 Finchley Road, N.W.3. Principal—Rev. S. Cave, M.A., D.D. Secretary, Rev. J. B. Binns, M.A.

New College, founded in 1696 and reconstituted in 1850, and Hackney College, founded in 1803, were merged into one institution in 1924. *Library*, 30,000 vols. Sessional fee, 6 gs. for each class. Internal students—40.

KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, W.C.2. Dean—Rev. Preb. R. Hanson, M.A., B.D. Secy.—S. T. Shovelton, M.A. Founded 1829 (v. King's Coll.). Complete courses for all Theol. degrees. Day and Evg. Classes. *Fees*: for tuition, undergraduate courses, £32 per session; evening classes, 5 gs. per term. *Hostel* for students: fee for residence, £22 per term. Full-time students, 225; internal students of the University, 80. The College grants A.K.C. Diploma in Theology.

RICHMOND COLLEGE, RICHMOND, Surrey. Principal—Rev. Prof. C. Ryder Smith, B.A., D.D. Secy. of Staff—Rev. S. G. Dimond, M.A.

Opened 1843. Students are accepted candidates for Ministry of the Methodist Church, but other Univ. students may be admitted. Residential accommodation for 60. Internal students—53.

ST. JOHN'S HALL, HIGHBURY, Avenell Rd., N.5 (Church of England). Principal—Rev. T. W. Gilbert, M.A., D.D. Hon. Secy. of Council—Rev. Prebendary H. W. Hinde, M.A.

Founded and endowed 1863 by Dr. A. Peache, Chancellor of the Western Univ. of Canada. Courses for A.L.C.D. (Associateship of the London College of Divinity) and L.Th. Durham as well as for B.D. of London. *Fees*: Entrance, 2 gs.; board and tuition, £93. Residential accommodation for 70 students.

MEDICAL SCHOOLS OF THE UNIVERSITY

RECOGNIZED TEACHERS

Note.—In the following list the names of the Medical and other Schools are indicated by letters thus :

BETHLEM ROYAL HOSPL. (Bm.).
BRITISH POSTGRADUATE MED. SCH. (BP.).
CHARING CROSS HOSPL. MED. SCH. (C.).
COLL. OF PHARMACEUTICAL SOC. (P.).
GUY'S HOSPL. MED. SCH. (G.).
KING'S COLL. HOSPL. MED. SCH. (KM.).
LISTER INSTITUTE (LI.).
LONDON HOSPL. MED. COLL. (L.).
LONDON (R.F.H.) SCH. OF MED. FOR WOMEN (LW.).
LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (H).
MAUDSLEY HOSPL. (My.).
MIDDLESEX HOSPL. MED. SCH. (M.).
ROYAL CANCER HOSPL. (Can.).
ROYAL DENTAL HOSPL. OF LOND. SCH. OF DENT. SURG. (D.).
ST. BART.'S HOSP. MED. COLL. (B.).
ST. GEORGE'S HOSPL. MED. SCH. (SG.).
ST. MARY'S HOSPL. MED. SCH. (SM.).
ST. THOMAS'S HOSPL. MED. SCH. (T.).
UNIV. COLL. HOSPL. MED. SCH. (UM.).
WESTMINSTER HOSPL. MED. SCH. (W.).

and names of certain institutions having recognized teachers thus :

BROMPTON HOSPL. FOR CONSUMPTION (BH.).
HOSPL. FOR SICK CHILDREN (SCh.).
NATIONAL HOSPL. FOR DISEASES OF THE NERVOUS SYSTEM (NH.).
ROYAL LONDON OPHTHALMIC HOSPL. (Oph.).
NATIONAL INSTITUTE FOR MEDICAL RESEARCH (MR.).

Anæsthetics

Apperly, R. E., L.R.C.P., M.R.C.S. (M.).
Boyle, H. E. G., O.B.E., M.R.C.S., L.R.C.P. (B.).
Daly, A. S., L.R.C.P., M.R.C.S. (M.).
Gandy, E. W., O.B.E., B.A. Camb., L.R.C.P., M.R.C.S. (W.).
Hudson, M. W. P., M.B., B.S., M.R.C.S., L.R.C.P. (UM.).
Marston, A. D., M.R.C.S., L.R.C.P., L.D.S. (G.).
Morris, C. W., M.B., B.S. Durh., L.R.C.P., M.R.C.S. (UM., LW.).
Phillips, G. R., L.R.C.P., M.R.C.S. (SM.).
Richards, H. A., M.A. Camb. (KM.).
Sunderland, A., L.R.C.P., M.R.C.S. (C.).
Wilson, H. B., M.B., B.Ch. Camb., L.R.C.P., M.R.C.S. (T.).

Anatomy

Appleton, A. B., M.A., M.D. Camb., L.R.C.P., M.R.C.S. Prof. (T.).
Boyd, J. D., M.D., B.Ch., B.A.O., M.Sc. Belfast, M.A. Camb. Prof. (L.).
Clark, W. E. Le G., M.A. Camb., D.Sc., F.R.C.S., L.R.C.P., F.R.S. (My.).
Frazer, J. E. S., D.Sc., F.R.C.S. Prof. (SM.).
Haines, R. W., M.B., B.S., M.R.C.S., L.R.C.P. (T.).

Hamilton, W. J., D.Sc. Glas., M.Sc., M.B., B.Ch., B.A.O. Belf. Prof. (B.).
Harper, W. F., B.Sc., Ph.D., M.D. St. And. Reader (L.).
Johnston, T. B., M.B., Ch.B. Edin. Prof. (G.).
Keene, Mrs. M. F. L., M.B., B.S. Prof. (LW.).
Kirk, J., M.B., Ch.B. Edin., F.R.C.S.E.
S. A. Courtauld Prof. (M.).
Robinson, R. H. O. B., B.A., M.B., M.Ch. Camb., F.R.C.S. (T.).
Whillis, J., M.D., M.S. Durh., F.R.C.S. Reader (G.).

Bacteriology, v. also Path.

Bamforth, J., M.D., Ch.B., D.P.H. Liv., M.R.C.P., M.R.C.S. (T.).
Bedson, S. P., M.Sc., M.D., B.S. Durh., D.Sc. Belf.
Goldsmiths' Prof. (L.).
Benjafield, J. D., M.D., B.S., D.P.H. (SG.).
Dukes, C. E., O.B.E., M.D. Edin., M.Sc., D.P.H. (KM.).
Duncan, J. T., L.R.C.P.I., L.R.C.S.I. (H.).
Eagles, G. H., M.D. Tor., D.P.H. (LI.).
Fleming, A., M.B., B.S., L.R.C.P., F.R.C.S. Prof. (SM.).
Freeman, J., D.M., B.Ch. Ox., M.A. (SM.).
Garrod, L. P., M.A., M.D., B.Ch. Camb., M.R.C.P., M.R.C.S. Prof. (B.).
Goadby, Sir Kenneth W., K.B.E., L.R.C.P., M.R.C.S., L.D.S., D.P.H. Camb. (UM.).
Ledingham, Sir John C. G., C.M.G., M.A., LL.D., M.B., Ch.B., D.Sc. Aberd. and Leeds, Sc.D. Dub., F.R.C.P., F.R.S. Prof. (LI.).
Miles, A. A., M.A. Camb., M.R.C.P., M.R.C.S. Prof. (UM.).
Nabarro, D. N., B.Sc., M.D., F.R.C.P., D.P.H. (SCh.).
Petrie, G. F., M.D., Ch.B. Aberd., (LI.).
Schütze, H. L., M.D. Würzb. (LI.).
Stamp, T. C., M.A., B.Ch. Camb., M.R.C.S., L.R.C.P.
Reader (BP.).
Topley, W. W. C., M.A., M.D., B.Ch. Camb., F.R.C.P., M.R.C.S., F.R.S. Prof. (H.).
Whitby, L. E. H., C.V.O., M.A., M.D., M.R.C.P., M.R.C.S., D.P.H. (M.).
Wilson, G. S., M.D., B.S., M.R.C.P., M.R.C.S., D.P.H.
Prof. (H.).
Wright, Sir A. E., K.B.E., C.B., B.A., Sc.D., M.D. Dub., LL.D. Belf. & Ed., F.R.S. Prof. (SM.).

Biochemistry, v. also Pathological Chemistry

Boyland, E., M.Sc. Manc., Ph.D.
Reader (Can.).
Coward, Katharine H., M.Sc. Manc., D.Sc. Reader (P.).
Dodds, E. C., M.V.O., D.Sc., M.D., B.S., Ph.D., L.R.C.P., M.R.C.S. Prof. (M.).
Haselwood, G. A. D., M.Sc., Ph.D., A.I.C. Reader (G.).
McLean, Ida S., D.Sc. (LI.).
Morgan, W. T. J., Ph.D., D.Sc., F.I.C. (LI.).
Raistrick, H., B.A., Sc.D. Camb., D.Sc. Leeds, F.R.S. Prof. (H.).
Reeves, H. G., M.Sc., Ph.D. Birm., D.Sc. (B.).
Robison, R., Ph.D. Leip., D.Sc., F.I.C. Prof. (LI.).
Ryffel, J. H., M.A., B.Ch. Camb., B.Sc., F.I.C. (recogd. in Forensic Med.) Reader (G.).
Wooldridge, W. R., Ph.D. Camb., M.Sc., M.R.C.V.S. (H.).
Wormall, A., D.Sc. Leeds., A.I.C. Prof. (B.).
Zilva, S. S., Ph.D. Giessen, D.Sc., F.I.C. (LI.).

Biology

Cunnington, W. A., M.A. Camb., D.Sc. (B.).
Evans, T. J., M.A. Ox. (G.).
Jones, Evan I., M.D., B.S., M.Sc., M.R.C.P., M.R.C.S. (G.).
Lucas, Catherine L. T., M.Sc. (LM.).
Rushton, W., D.Sc., A.R.C.S., D.I.C. (T.).
Wilkie, J. S., B.Sc. (G.).
Woodger, J. H., D.Sc. Reader (M.).

Chemistry

Colles, W. M., B.Sc. (G.).
Cook, J. W., Ph.D., D.Sc., F.R.S. Prof. (C.).
Ellis, G. W., O.B.E., D.Sc. (SM.).
Gibson, C S., O.B.E., M.A. Ox. and Camb., B.Sc. Ox., M.Sc. Tech. Manc., F.I.C., F.R.S. Prof. (G.).
Lowndes, J., F.I.C. (T.).
Plimmer, R. H. A., D.Sc. Prof. (T.).
Town, B. W., B.Sc., Ph.D., A.R.C.S. (B.).
Tuck, W. B., D.Sc. Prof. (M.).
Widdows, Sybil T., B.Sc., F.I.C. (LW.).

Chemistry as applied to Hygiene

Delafield, M. E., B.A., M.B., B.Ch., D.P.H. Camb., L.R.C.P., M.R.C.S. Prof. (H.).

Chemistry, Physiological

Gardner, J. A., M.A. Ox., F.I.C. Reader (SG.).

Dentistry, v. *infra*

Dermatology

Barber, H. W., M.A., M.B., B.Ch. Camb., F.R.C.P. (G.).
Barron, H. T., M.D., M.R.C.S., M.R.C.P. (W.).
Brain, R. T., M.D., B.S., F.R.C.P., M.R.C.S. (LW.).
Burrows, A., M.D., B.S., M.R.C.P. (L.).
Dore, S. E., M.A., M D., B.Ch. Camb., F.R.C.P., M.R.C.S. (W.).
Dowling, G. B., M.D., B.S., F.R.C.S. (T.).
Forman, L., M.D., B.S., M.R.C.P. (G.).
Franklin, J. L., M.D., B.Chir. Camb., M.R.C.P., M.R.C.S. (W.).
Freshwater, D. H., M.A., M.D. Camb. (SG.).
Goldsmith, W. N., M.A., M.D. Camb., M.R.C.P. (UM.).
Gray, A. M. H., C.B.E., M.D., B.S., F.R.C.P., F.R.C.S. (UM.).
Heggs, G. B. M., M.D , B.S., M.R.C.P. (SM.).
MacCormac, H. (v. also Med., *infra*) (M.).
O'Donovan, W. J., O.B.E., M.D., B.S., M.R.C.P. (L.).
Roxburgh, A. C., M.A., M.D., B.Ch. Camb., F.R.C.P. (B.).
Thomson, M. S., M.A., M.D. Camb., M.R.C.P., M.R.C.S. (KM.).
Wigley, J. E. M., M.B., B.S. Melb., M.R.C.P. (C.).

Dietetics

Cowell, S. J., M.A., M.B., B.Ch. Camb., M.R.C.P., M.R.C.S. [Prof. (UM.).

Diseases of Children

Barrington-Ward, Sir Lancelot E., K.C.V.O., Ch.M. Edin., F.R.C.S. Eng. and Edin. (SCh.).
Cameron, H. C., M.A. Camb. and Glas., M.D. Camb., F.R.C.P. (G.).
Ellis, R. W. B., M.A., M.D., B.Ch. Camb., M.R.C.P. (G.).
Frew, R. S., M.D., Ch.B. Edin., M.R.C.P. (SCh.).
Gregory, Mrs. H. H. Chodak, M.D., B.S., M.R.C.P. (LW.).

Hamilton, C. K. J., B.A., B.M., B.Ch. Ox., M.R.C.P., M.R.C.S. (C.).
Harris, C. F., M.D., B.S., F.R.C.P., M.R.C.S. (B.).
Maitland-Jones, A. G., O.B.E., M.C., M.D., B.S., M.R.C.S., L.R.C.P. (L.).
Moncrieff, A. A., M.D., B.S., F.R.C.P. (M.).
Paterson, D. H., B.A., M.D. Edin., Ch.B. Manit., F.R.C.P. (W.).
Pearson, W. J., D.S.O., M.C., M.A., D.M., Ch.B. Ox., F.R.C.P. (UM.).
Sheldon, W. P. H., M.D., B.S., M.R.C.P., M.R.C.S. (KM.).
Tallerman, K. H., M.A., M.D. Camb., M.R.C.P., M.R.C.S. (L.).

Entomology, Medical

Buxton, P. A., M.A. Camb., L.R.C.P., M.R.C.S. Prof. (H.).
Wigglesworth, V. B., M.A., M.D., B.Chir. Camb. Reader (H.).

Epidemiology and Vital Statistics

Edge, Major P. G., O.B.E. (H.).
Greenwood, M., D.Sc., F.R.C.P., M.R.C.S., F.R.S. Prof. (H.).
Hill, A. B., D.Sc., Ph.D. Reader (H.).
Russell, W. T. (H.).

Forensic Med., v. also Biochem., Pathological Chem.

Brend, W. A., M.A. Camb., B.Sc., L.R.C.P., M.R.C.S. (C.).
Davidson, J., M.B., Ch.B. Edin. (L.).
Lynch, G. R., O.B.E., M.B., B.S., L.S.A., D.P.H. (SM. and W.).
Lyster, R. A., M.D., Ch.B., B.Sc. (Pub. Health), D.P.H. Birm., B.Sc., L.S.A. (also in Hyg.). (B.).
Ryffel, J. H., M.A., B.Ch. Camb., B.Sc., F.I.C. Reader (G.).
Simpson, C. K., M.D., B.S., L.R.C.P., M.R.C.S. (G.).
Spilsbury, Sir Bernard H., M.A., B.M., B.Ch. Ox., F.R.C.P. (LW.).

Gynæcology, v. Obstetrics and Gynæcology

Helminthology

Leiper, R. T., D.Sc., M.D., Ch.B. Glas., F.R.S. W. J. Courtauld Prof. (H.).

Hygiene

Angus, T. C. (H.).
Bedford, T., Ph.D., D.Sc. (H.).
Buchan, G. F., M.D., Ch.B. Glas., M.R.C.P., D.P.H. (SM. and H.).
Hartley, P., C.B.E., D.Sc., F.R.S (MR.).
Jameson, Sir W. W., M.A., M.D., Ch.B. Aberd., F.R.C.P., D.P.H. Prof. (H.).
Lyster, R. A. (v. Forensic Medicine) (B.).
Parkinson, G. S., D.S.O., L.R.C.P., M.R.C.S., D.P.H. (H.).
Peters, B. G., M.Sc. Brist., Ph.D. (H.).
Porter, C., M.D., C.M., B.Sc. Edin., M.R.C.P. (M.).
Russell, W. T., F.S.S. (H.).
Shinnie, A. J., M.D. Aberd., D.P.H. (W.).
Smith, May, M.A. Manc., D.Sc. (H.).
Spitta, H. R. D., M.V.O., M.D., B.S. Durh., L.R.C.P., M.R.C.S., D.P.H. Camb. (SG.).
Williams, R. P., M.D., D.P.H. Ox. (KM.).

Laryngology, Oto-Rhino-

Brown, L. G., M.C., M.A., D.M. Ox., L.R.C.P., F.R.C.S. (C.).
Cann, R. J., M.B., M.S., M.R.C.S., L.R.C.P. (G.).
Capps, F. C. W., F.R.C.S. (B.).
Cawthorne, T., F.R.C.S., L.R.C.P. (K.M.)
Chubb, G. C., D.Sc., M.B., B.S., F.R.C.S. (W.).
Daggett, W. I., M.A., M.B., B.Chir. Camb., F.R.C.S. (KM.).
Davis, E. D. D., F.R.C.S. (C.).
Formby, M. L., B.A., B.Sc. Ox., M.B., B.S. Adel., F.R.C.S. (UM.).
Hastings, S., M.B., M.S., F.R.C.S. (M.).
Hope, C. W. M., O.B.E., M.D., B.S. Durh., F.R.C.S. (KM.).
Howarth, W. G., M.A., M.B., B.Ch. Camb., F.R.C.S. (T.).
Jory, P. J., D.S.O., M.B., Ch.B. N.Z., F.R.C.S. (SG.).
Kisch, H. A., M.B., B.S., F.R.C.S. (UM.).
Layton, T. B., D.S.O., M.B., M.S., F.R.C.S. (G.).
McLaggan, J. D., M.A., M.B., B.Ch. Aberd., F.R.C.S., F.R.C.S.E. (LW.).
Mill, W. A., M.B., M.S., F.R.C.S. (T.).
Monkhouse, J. P., M.B., B.S., F.R.C.S., L.R.C.P. (M.).
Morris, W., F.R.C.S. Edin. (L.).
Negus, V. E., M.B., M.S., L.R.C.P., F.R.C.S. (KM.).
Neilson, D. F. A., B.A. Camb., L.R.C.P., F.R.C.S. (T.).
Patterson, N., M.B., Ch.B. Edin., F.R.C.S. (L.).
Robertson, G. D., F.R.C.S. (SM.).
Russell, H. G. B., M.A. Camb., F.R.C.S. (B.).
Scott, S. R., M.B., M.S., F.R.C.S. (B., NH.).
Simpson, J. F., F.R.C.S., L.R.C.P. (SM.).
Suggit, S. C., M.B., B.S., F.R.C.S., L.R.C.P. (UM.).
Watkyn-Thomas, F. W., B.Ch. Camb., F.R.C.S. (UM.).
Wilson, C. P., F.R.C.S. (M.).

Medical Parasitology

Shortt, H. E., M.D., Ch.B. Aberd., D.T.M. and H. Reader (H.)

Medicine, v. also Path. Chem., Dis. of Child., Mental Dis., Pharmacol.

Abrahams, Sir A., O.B.E., B.A., M.D., B.Ch. Camb., F.R.C.P. (W.).
Beaumont, G. E., M.A., D.M. Ox., F.R.C.P., D.P.H. (M.).
Bedford, D. E., M.D., B.S., F.R.C.P., M.R.C.S. (M.).
Bennett, T. I., M.D., B.S., F.R.C.P., M.R.C.S. (M.).
Boland, E. R., F.R.C.P., M.R.C.S., D.P.H. (G.).
Boldero, H. E. A., M.A., D.M., B.Ch. Ox., M.R.C.P., M.R.C.S. (M.).
Bourne, G., M.D., B.S., F.R.C.P. (B.).
Brain, W. R., M.A., D.M., B.Ch. Ox., F.R.C.P. (L.).
Brinton, D. H., B.M., B.Ch. Ox., M.R.C.P. (SM.).
Brooks, W. D. W., M.A., B.M., B.Ch. Ox., M.R.C.P. (SM.).
Burrell, L. S. T., M.A., M.D., B.Ch. Camb., F.R.C.P. (LW.).
Cameron, H. C., M.A. Camb. and Glas., M.D. Camb., F.R.C.P. (G.).
Campbell, J. M. H., O.B.E., M.A., D.M., B.Ch. Ox., F.R.C.P. (G.).
Carlill, H., M.A., M.D., B.Ch. Camb., M.R.C.P., M.R.C.S. (W.).

Cassidy, Sir Maurice A., K.C.V.O., C.B., M.A., M.D., B.Ch. Camb., F.R.C.P., M.R.C.S. (T.).
Chandler, F. G., M.A., M.D. Camb., F.R.C.P. (B.).
Christie, R. V., M.D. Edin. Prof. (B.).
Clark-Kennedy, A. E., M.A., M.D. Camb., F.R.C.P. (L.).
Cockayne, E. A., M.A., D.M., Ch.B. Ox., F.R.C.P. (M.).
Conybeare, J. J., M.C., B.A., D.M. Ox., F.R.C.P. (G.).
Critchley, M., M.D. Brist., F.R.C.P. (KM.).
Cullinan, E. R., M.D., B.S., F.R.C.P. (B.).
Davies, D. T., B.Sc., M.D., B.Ch. Wales, F.R.C.P. (LW.).
de Souza, D. H., D.Sc., M.D., B.S., F.R.C.P. (W.).
de Wesselow, O. L. V., B.A., D.M., B.Ch. Ox. Prof. (T.).
Douthwaite, A. H., M.D., F.R.C.P., M.R.C.S. (G.).
Dunlop, H. A., M.Sc., M.D., B.S., M.R.C.P., M.R.C.S. (C.).
East, C. F. T., M.A., B.M., B.Ch. Ox., F.R.C.P. (KM.).
Elkington, J. St. C., M.A., M.D. Camb., F.R.C.P. (T.).
Ellis, A. W. M., O.B.E., B.A., M.D. Tor., F.R.C.P. Prof. (L.).
Evans, A. G., B.A., M.D. Camb., F.R.C.P. (B.).
Evans, H., M.D., B.S., M.R.C.P., M.R.C.S. (L.).
Evans, W., M.D., B.S., M.R.C.P., M.R.C.S. (L.).
Feiling, A., B.A., M.D., B.Ch. Camb., F.R.C.P. (SG.).
Fenton, W. J., M.A., M.D., B.Ch. Camb., F.R.C.P. (BH.).
Firth, A. C. D., M.A., M.D., B.Ch. Camb., F.R.C.P. (KM.).
Fraser, F. R., M.A. Camb., M.D., Ch.B. Edin., F.R.C.P. Edin. Prof. (BP.).
Gainsborough, H., M.A., M.D., B.Ch. Camb., F.R.C.P., M.R.C.S. (SG.).
Gardiner-Hill, H., M.A., M.D. Camb., F.R.C.P., M.R.C.S. (T.).
Gilpin, A., M.D., B.S. M.R.C.P. (KM.).
Goadby, H. K., M.A., M.D. Camb. (T.).
Gosse, A. H., M.A., M.D. Camb., F.R.C.P., M.R.C.S. (SM.).
Gow, A. E., M.D., B.S. (B.).
Graham, G., M.D. Camb., F.R.C.P. (B.).
Hampson, A. C., M.C., M.A., M.D. Camb., M.R.C.P. (G.).
Harris, K. E., M.A., M.D. Camb., M.R.C.P., M.R.C.S. (UM.).
Hawksley, J. C., Ph.D. Birm., M.D., B.S., M.R.C.S., M.R.C.P. (UM.).
Hickling, R. A., B.A., B.Ch., M.D. Camb., F.R.C.P. (C.).
Hilton, R., M.A., M.D. Camb., F.R.C.P. (T.).
Himsworth, H. T., M.D., M.R.C.S., F.R.C.P. Prof. (U.).
Hobhouse, E. W. N., M.A., M.D. Ox., M.R.C.P., M.R.C.S. (LW.).
Holmes, G. M., C.M.G., C.B.E., B.A., D.Sc., M.D., B.Ch., B.A.O. Dub., F.R.C.P., F.R.S. (*Med.* and *Ophthalmology*) (C., NH.).
Hoskin, T. J., M.A., M.D., B.Ch. Camb., M.R.C.P., M.R.C.S. (LW.).
Howell, C. M. H., M.A., M.D. Ox., F.R.C.P. (NH.).
Hoyle, J. C., M.D., B.S., M.R.C.P. (KM.).
Hunt, T. C., B.A., D.M. Ox., M.R.C.P., M.R.C.S. (SM.).
Hunter, D., M.D., B.S. (L.).
Hurst, Sir A. F., M.D. (v. Neurology) (G.).
Jones, Evan, M.D., B.S., M.R.C.P., M.R.C.S. (T.).

Lakin, C. E., M.D., B.S., F.R.C.P., F.R.C.S. (M.).
Lander, F. P. L., M.D., B.S., M.R.C.P. (LW.).
Langmead, F. S., M.D., F.R.C.P. Prof. (SM.).
Ledingham, Una C., M.B., B.S., M.R.C.P. (LW.).
Levick, C. B., M.B., Ch.M. Syd., M.R.C.P. (SG.).
Lewis, Sir T., C.B.E., D.Sc. Wales, M.D., F.R.C.P., F.R.S. (UM.).
Lightwood, R. C., M.D., F.R.C.P., D.P.H. (W.).
Livingstone, J. L., M.D., B.S., M.R.C.P., M.R.C.S. (KM.).
Lloyd, W. E., M.D., B.S., M.R.C.P. (W.).
M'Alpine, D., M.D., Ch.B. Glas., F.R.C.P. (M.).
MacCormac, H., C.B.E., M.D., Ch.B. Edin., F.R.C.P. (M.).
McMichael, J., M.D., Ch.B. Edin., F.R.C.P. Ed. Reader (B.P.).
Marshall, G., O.B.E., M.D., F.R.C.P. (G.).
Maxwell, J., M.D., B.S., F.R.C.P. (B.).
Meadows, S. P., B.Sc., M.B., Ch.B. Liv., M.D., M.R.C.P., M.R.C.S. (W.).
Morland, A. J., M.D., B.S., M.R.C.S., M.R.C.P. (UM.).
Mutch, N., M.A., M.D., B.Ch. Camb., F.R.C.P. (also in *Pharmacol.*) (G.).
Nevin, S., M.D., B.Ch., B.Sc., B.A.O. Belfast, M.R.C.P. (KM. and My.).
Parkinson, J., M.D., B.S., F.R.C.P. (L.).
Plummer, N. S., M.D., B.S., M.R.C.P., M.R.C.S. (C.).
Poulton, E. P., M.A., M.D., B.Ch. Ox., F.R.C.P. (G.).
Pritchard, E. A. B., M.A., M.D. Camb., F.R.C.S. (UM.).
Purves-Stewart, Sir James, K.C.M.G., C.B., M.A., M.D., C.M. Edin., F.R.C.P. (W.).
Riddoch, G., M.D., Ch.B. Aberd., F.R.C.P. (L.).
Rowlands, R. A., O.B.E., B.Sc., M.D., B.S., F.R.C.P. (L.).
Smith, E. B., M.D., B.S., F.R.C.P. (SG.).
Smith, J. F., F.R.C.P., M.R.C.S. (T.).
Smith, K. S., M.D., B.S., M.R.C.P. (C.).
Spence, A. W., M.D. Camb., M.R.C.P. (B.).
Stewart, T. G., M.D., Ch.B. Edin., F.R.C.P. (NH.).
Stott, A. W., M.A., B.Ch. Camb., F.R.C.P. (W.).
Symonds, C. P., M.D., B.Ch. Ox., F.R.C.P., M.R.C.S. (G.).
Torrens, J. A., M.D., B.S., F.R.C.P. (SG.).
Wall, R. C. B., M.A., D.M., B.Ch. Ox., F.R.C.P. (L.).
Walshe, F. M. R., O.B.E., M.D., B.S., D.Sc., F.R.C.P. (UM.).
Ward, G. E. S., M.D., B.S., F.R.C.P. (M.).
Warner, E. C., B.Sc., M.D., B.S., M.R.C.P. (C.).
Wilson, Sir Charles, M.C., M.D., B.S., F.R.C.P. (SM.).
Woodwark, Sir A. S., C.M.G., C.B.E., M.D., B.S., F.R.C.P. (W.).

Mental Diseases

East, W. N., M.D., L.R.C.P., M.R.C.S. (My.).
Gillespie, R. D., M.D., Ch.B. Glas., D.P.M., M.R.C.P. (G.).
Hart, B., M.D., F.R.C.P. (UM.).
James, G. W. B., M.C., M.D., B.S., D.P.M., L.S.A. (SM.).
Lewis, A. J., M.D., B.S. Adel., M.R.C.P. (My.).
Mapother, E., M.D., F.R.C.P., F.R.C.S. Prof. (KM., My.).

Nicol, W. D., M.B., B.S., F.R.C.P., D.P.M. (LW.).
Petrie, A. A. W., M.D., B.S., F.R.C.P., F.R.C.S., D.P.M. (C.).
Phillips, J. G. P., M.D., B.S., F.R.C.P. (Bm.).
Tennent, T., M.D., Ch.B. Glas., M.R.C.P., D.P.H., D.P.M. (My.).
Tredgold, A. F., M.D. Durh., F.R.C.P. (My.).
Woods, J. C., B.A. R.U.I., M.D., B.S., L.R.C.P., M.R.C.S. (L.).
Worth, R., M.B., B.S. Durh., L.R.C.P., M.R.C.S. (W.).
Yellowlees, H., O.B.E., M.D., Ch.B. Glas., F.R.F.P.S. Glas., F.R.C.P. Edin., M.R.C.P., D.P.M. (T.).

Neurology

Critchley, M., M.D. Brist., F.R.C.P. (KM.).
Howell, C. M. H., M.A., D.M. Ox., F.R.C.P. (NH.).
Hurst, Sir A. F., M.A., M.D., B.Ch. Ox., F.R.C.P. (G.).
McAlpine, D., M.D., Ch.B. Glas., F.R.C.P. (M.).
Walshe, F. M. R., O.B.E., D.Sc., M.D., F.R.C.P. (UM.).
Worster-Drought, C. C., M.A., M.D. Camb., F.R.C.P., M.R.C.S. (Bm.).

Obstetrics and Gynæcology

Arthure, H. G. E., M.D., F.R.C.S., L.R.C.P., M.C.O.G. (C.).
Barris, J. D., B.A., M.B., B.Ch. Camb., F.R.C.P., F.R.C.S. (B.).
Beattie, W. J. H. M., M.A., M.D. Camb., F.R.C.S., M.C.O.G. (B.).
Bell, A. C. H., M.B., B.S., F.R.C.S. (W.).
Bourne, A. W., M.A., M.B., B.Ch. Camb., F.R.C.S. (SM.).
Bowes, R. K., M.D., M.S. (T.).
Brews, R. A., M.D., M.S., M.R.C.P., F.R.C.S. (L.).
Browne, F. J., M.D., Ch.B. Aberd., D.Sc. Edin., F.R.C.S.E. (Obst. Med.) Prof. (UM.).
Chapple, H., M.A., M.Ch., M.B. Camb., B.Sc. Adel., F.R.C.S. (G.).
Cook, F., B.Sc., M.B., B.S., F.R.C.S. (G.).
Dearnley, Gertrude, M.D., B.S., F.C.O.G. (LW.).
Dodd, S., M.A., M.B., B.Ch. Camb., M.R.C.S., F.R.C.P., F.R.C.S.E. (W.).
Donaldson, M., B.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Fleming, Amy M., D.Sc., M.D. Glas., M.C.O.G. Prof. (LW.).
Gibberd, G. F., M.S., M.B., F.R.C.S. (G.).
Gilliatt, W., M.D., M.S., F.R.C.S., L.R.C.P., F.C.O.G. (KM.).
Goodwin, A., O.B.E., M.D., B.S., F.R.C.S. (W.).
Gray, A. O., M.D. Durh., F.R.C.P.E., F.R.C.S. (C.).
Holland, E., M.D., B.S., F.R.C.S., F.R.C.P. (L.).
Kellar, R. J., M.B., Ch.B. Edin., F.R.C.S.E., M.C.O.G. Reader (BP.).
Lack, V. J. F., M.B., B.S., L.R.C.P., F.R.C.S.E. (L.).
MacLeod, D. H., M.B., B.S., M.R.C.P., F.R.C.S., M.C.O.G. (SM.).
McNair, A. J., B.A., M.B., B.Ch. Camb., F.R.C.S. (G.).
Palmer, A. C., O.B.E., M.B., B.S., F.R.C.S. (KM.).
Peel, J. H., M.A., B.M., B.Ch. Ox., F.R.C.S. (M.).
Rivett, L. C., M.A., M.Chir. Camb., L.R.C.P., F.R.C.S. (M.).
Roques, F. W., M.A., M.D., M.Ch. Camb., F.R.C.S. (M.).

Shaw, W., M.A., M.D., B.Ch. Camb., F.R.C.S. (B.).
Taylor, H. G., M.A., M.B., B.Ch. Camb., F.R.C.S. (SG.).
White, C., M.D., B.S., F.R.C.P., F.R.C.S. (UM.).
White, N. L., M.A., M.D. Camb., F.R.C.S. (UM.).
Williams, E. H. G., M.D., B.Ch. Camb., M.R.C.P., M.R.C.S. (C.).
Williams, L. H. W., M.D., M.S., F.R.C.S. (SM.).
Winterton, W. R., M.A., M.B., B.Ch. Camb., F.R.C.S. (M.).
Wrigley, A. J., M.D., B.S., F.R.C.S. (T.).
Wyatt, J. M., M.B., B.S., F.R.C.S. (T.).
Young, J., D.S.O., M.D., Ch.B. Edin., F.R.C.S.E., F.C.O.G. Prof. (BP.).

Ophthalmology

Bickerton, J. M., M.A., B.Ch. Camb., L.R.C.P., F.R.C.S. (KM.).
Doggart, J. H., M.A., M.D. Camb., F.R.C.S. (SG.).
Doyne, P. G., B.A., M.B. Ox., F.R.C.S. (T.).
Duke-Elder, Sir Stewart, M.A., D.Sc., M.D. St. And., Ph.D., F.R.C.S. (SG.).
Goulden, C.B., O B.E., M.A., M.Ch., M.D. Camb., F.R.C.S. (L.).
Greeves, R. A., B.A. R.U.I., M.B., B.S., F.R.C.S. (M.).
Griffith, A. D., M.B., B.S., F.R.C.S. (W.).
Hine, M. L., M.D., B.S., F.R.C.S. (C.).
Hudson, A. C., M.A., M.D., B.Ch. Camb., F.R.C.S. (Oph.).
Jeremy, H. R., F.R.C.S. (L.).
Juler, F. A., M.A., M.B., B.Ch. Camb., F.R.C.S. (SM., Oph.).
Law, F. W., M.A., M.D., B.Ch. Camb. (G.).
MacCallan, A. F., C.B.E., B.A., M.D., B.Ch. Camb., F.R.C.S. (W.).
Mann, Ida C., D.Sc., M.B., B.S., F.R.C.S., D.O.M.S. (LW.).
Moore, R. F., O.B.E., M.A., B.Ch. Camb., F.R.C.S. (Oph.).
Morgan, O. G., M.A., M.B., M.Ch. Camb., F.R.C.S. (G.).
Neame, H., F.R.C.S. (UM.).
Parsons, Sir John H., C.B.E., D.Sc., M.B., B.S., F.R.C.S., F.R.S. (Oph.).
Penman, G. G., M.A., M.D. Camb., F.R.C.S. (T.).
Savin, L. H., M.D., B.S., F.R.C.S. (KM.).
Scott, R. S., M.A., M.B., B.Ch. Camb., F.R.C.S. (B.).
Shapland, C.D., M.B., B.S., M.R.C.P., F.R.C.S. (UM.).
Whiting, M. H., O.B.E., M.A., M.B, B.Ch. Camb., F.R.C.S. (M.).
Williamson-Noble, F. A., B.A., M.B., B.Ch. Camb., F.R.C.S. (SM.).

Orthopædics

Bankart, A. S. B., M.A., M.Chir. Camb., F.R.C.S. (M.).
Bristow, W. R., M.B., B.S., F.R.C.S. (T.).
Brockman, E. P., B.A., M.B., M.Chir. Camb., F.R.C.S. (W.).
Ellis, V. H., M.A., B.Chir. Camb., L.R.C.P., F.R.C.S. (SM.).
Higgs, S. L., M.A., M.B., B.Chir. Camb., F.R.C.S. (B.).
Lambrinudi, C., B.A. Camb., F.R.C.S. (G.).
Perkins, G., B.A., M.B., M.Ch. Ox. (T.).
Stamm, T. T., M.B., B.S., F.R.C.S. (G.).
Trevor, D., M.B., B.S., F.R.C.S., L.R.C.P. (C.).
Verrall, P. J., B.A., M.B., B.Chir. Camb., F.R.C.S. (LM).
Wiles, P., M.B., M.S., F.R C.S. (M.).

Parasitology v. Med. Parasitol.

Pathology and Anat.—Morbid, v. also Chem., Bact.

Cameron, G. R., D.Sc., M.B., B.S. Melb. Prof. (UM.).
Creed, E. ff., M.A., D.M., B.Ch., D.P.H. Ox., F.R.C.P. (KM.).
De Navasquez, S. J., M.D., M.R.C.S., L.R.C.P., D.T.M. and H. (G.).
Dible, J. H., M.B., Ch.B. Glas., F.R.C.P. (BP.).
Gray, J., M.D., Ch.B. Edin. Reader (BP.).
Hadfield, G., M.D., B.S., F.R.C.P. Prof. (B.).
Knott, F. A., M.D., B.S., M.R.C.P., M.R.C.S., D.P.H., A.R.C.S. Reader (G.).
Lakin, C. E., M.D., B.S., F.R.C P., F.R.C.S. (also in Med.) (M.).
Lawrence, R. D., M.A., M.D., Ch.B. Aberd., F.R.C.P. (also Chem. Path.) (KM.).
Lucas, H. A., B.A. Camb., L.R.C.P., M.R.C.S. (KM.).
McIntosh, J., M.D., Ch.B. Aberd. Prof. (M.).
MacLagan, N. F., M.Sc., M.D., B.S., M.R.C.S., M.R.C.P. (W.).
Magnus, H. A., M.D., M.R.C.S., L.R.C.P. (B.).
Maizels, M., M.D., B.S., M.R.C.P., M.R.C.S. (Clinical Path.) Reader (UM.).
Newcomb, W. D., M.A., M.D., B.Ch. Camb., M.R.C.P., M.R.C.S. Prof. (SM.).
Nicholson, G. W. de P., M.A., M.D. Camb. Prof. (G.).
Patterson, J., M.Sc. Durh., Ph.D. St. And. (C.).
Pulvertaft, R. J. V., B.A., M.D., B.Ch. Camb., M.R.C.S., L.R.C.P. Reader (W.).
Ross, Joan M., M.D., B.S., M.R.C.P., M.R.C.S. Reader (LW.).
Scarff, R. W., M.B., B.S., L.R.C.P., M.R.C.S. (Morbid Anat. and Histol.) Reader (M.).
Taylor, Mrs. Joan, B.Sc., M.B., B.S., D.P.H., L.R.C.P., M.R.C.S. (L.W.).
Taylor, J. F., B.A., M.D., B.Ch. Camb., L.R.C.P., M.R.C.S. (SG.).
Teale, F. H., B.Sc., M.D., F.R.C.P. (UM.).
Turnbull, H. M., M.A., B.Ch., D.M. Ox., F R.C.P. Prof. (L.).
Vaughan, Janet M., B.A., D.M., B.Ch. Ox., M.R.C.P. (BP.).
Vines, H. W. C., M.A., M.D., B.Ch. Camb., L.R.C.P., M.R.C.S. (C.).
Warwick, W. T., M.A., M.B. Camb., F.R.C.S. (M.).
Webb, R. A., Ph.D. Camb., A.B. Tennessee, M.D. Johns H., L.R.C.P., M.R.C.S. Prof. (LW.).
Woods, W. W., L.R.C.P., M.R.C.S. (Morbid Histol.) (L.).
Wright, G. P., B.A., D.M., B.Ch. Ox. Sir W. Dunn Prof. (G.),

Pathological Chemistry, v. also Biochem.

Harington, C. R., M.A. Camb., Ph.D. Edin., F.R.S. Prof. (UM.).
King, E. J., M.A. McMaster, Ph.D. Tor. Reader (BP.).
Lynch, G. R., O.B.E., M.B., B.S., D.P.H. (SM.).
Mann, S. A., D.Sc., F.I.C. (My.).

Pathology, Chemical

Griffiths, W. J., B.Sc., Ph.D. (T.).
Harrison, G. A., B.A., M.D., B.Ch. Camb., L.R.C.P., M.R.C.S. Reader (B.).
Lawrence, R. D., M.A., M.D., Ch.B. Aberd., F.R.C.P. (KM.).
Marrack, J. R., D.S.O., M.C., M.A., M.D. Camb. Prof. (L.).

Pathology, Experimental

Chick, Harriette, C.B.E., D.Sc. Lond. and Manc. (L.).
Kennaway, E. L., B.A., M.D. Ox., D.Sc., F.R.S. Prof. (Can.).

Wright, Sir Almroth E., K.B.E., C.B., B.A., Sc.D., M.D. Dub., LL.D. Belf. & Ed., F.R.S. Prof. (SM.).

Pharmacognosy

Wallis, T. E., B.Sc., F.I.C. Reader (P.).

Pharmacology, v. also Med.

Berry, H., B.Sc. (Pharmaceutics). Reader (P.).

Dale, Sir H.H., C.B.E., M.A., M.D., B.Ch. Camb., LL.D. Edin., D.Sc., Sheff. and Manc., F.R.C.P., F.R.S. (MR.).

Davis, H., B.Sc. (UM.).

Gaddum, J. H., M.A. Camb., L.R.C.P., M.R.C.S. Prof. (P.).

Hamill, P., M.A., M.D. Camb., D.Sc., F.R.C.P. (B.)

Linnell, W. H., M.Sc., Ph.D. Durh. Reader (P.).

Mutch, N., M.A., M.D., B.Ch. Camb., F.R.C.P. (G.).

Scarborough, Eleanor M., M.Sc., M.B., B.S. Reader (LW.).

Woolley, V. J., M.A., M.D. Camb. (T.).

Physics

Brinkworth, J. H., D.Sc., A.R.C.S. (T.).

Hopwood, F. L., B.Sc. Wales, D.Sc. Prof. (B).

Mayneord, W. V., M.Sc. Birm. (Applied to Med. Radiol.) Reader (Can.).

Russ, S., C.B.E., D.Sc. Joel Prof. (M.).

Stead, G., M.A. Camb. Prof.

White, W. H., M.A. Camb., B.Sc., A.R.C.S. (SM.).

Physical Medicine

Clayton, E. B., M.B., B.Ch. Camb. (KM.).

Cumberbatch, E. P., M.A., B.M., B.Ch. Ox., F.R.C.P. (B.).

Woods, Sir Robert S., M.D., F.R.C.P. (L.).

Physiology

Bishop, P. M. F., B.A., B.M., B.Ch. Ox., L.R.C.P., M.R.C.S. (G.).

Bond, Muriel, M.Sc. (LW.).

Crowden, G. P., M.Sc., L.R.C.P., M.R.C.S. Reader (H.).

Cullis, Winifred C., C.B.E.. M.A. Camb., D.Sc. Prof. (LW.).

Dale, Sir H. H., C.B.E. (also *Pharmacology*) (MR.).

Frazer, A. C., M.B., B.S., M.R.C.S., L.R.C.P. (S.M.).

Harris, D. T., B.Sc. Wales, M.B., Ch.B. Manc., D.Sc., M.B., B.S. Prof. (L.).

Hartridge, H., M.A., Sc.D., M.D., B.Ch. Camb., M.R.C.P., F.R.S. Prof. (B.).

Hewer, Evelyn E., D.Sc. (*Histology*) Reader (LW.).

Huggett, A. St. G. J. McC., D.Sc., Ph.D., M.B., B.S., L.R.C.P., M.R.C.S. Prof. (SM.).

McSwiney, B. A., B.A., Sc.D., M.B., B.Ch., B.A.O. Dub. Prof. (T.).

Reid, C., M.A., D.Sc., M.D. Aberd., D.P.H. Camb. Reader (L.).

Smart, W. A. M., B.Sc., M.B., B.S., L.R.C.P., M.R.C.S. (L.).

Spurrell, W. R., M.Sc., M.B., M.S., F.R.C.S. Reader (G.).

Wright, S., M.D., M.R.C.P., M.R.C.S. Prof. (M.).

Psychology, Medical Industrial

Culpin, M., M.D., F.R.C.S. Prof. (H.).

Radiology

Blackman, S., M.R.C.S., L.R.C.P., D.M.R.E. Camb. (D.).

Coldwell, W. H., M.B., B.S., L.R.C.P., M.R.C.S., D.M.R.E. Camb. (W.).

Davies, H. W., M.A., L.R.C.P., M.R.C.S. (KM.).

Fildes, G., M.B., Ch.B. Manc., D.M.R.E. Camb. (T.).
Finzi, N. S., M.B., L.R.C.P., M.R.C.S., L.S.A., D.M.R.E. Camb. (B.)
Gage, H. C., M.R.C.S., L.R.C.P. (SM.).
Hodgson, H. K. G., C.V.O., M.B., B.S. Durh., D.M.R.E. Camb., M.R.C.P. (M.).
Levitt, W. M., M.D., B.Ch. N.U.I., M.R.C.P., D.M.R.E. Camb. (B.).
Reynolds, R. J., C.B.E., M.B., B.Sc., D.M.R.E. Camb., F.R.C.P., M.R.C.S. (C.).
Salmond, R. W. A., O.B.E., M.D., Ch.M. Aberd., D.P.H., D.M.R.E. Camb. (UM.).
Vilvandré, G. E., L.R.C.P., M.R.C.S. (L.).
Webster, J. H. D., M.D., Ch.B. Edin., F.R.C.P. Edin. (M.).
White, J. D., M.B., Ch.B. Edin. (BP.).
Williams, E. R., M.D., D.M R.E. Camb., M.R.C.P., M.R.C.S. (C.)

Surgery, v. also Dis. of Child.

Ascroft, P. B, M.B., M.S., L.R.C.P., F.R.C.S. (M.).
Atkins, H. J. B., M.Ch. Ox., F.R.C.S. (G.).
Ball, Sir Girling, F.R.C.S. (B.).
Barrett, N. R., M.A., M.B., M.Ch. Camb., L.R.C.P., F.R.C.S. (T.).
Barrington, F. J. F., M.B., M.S., F.R.C.S. (UM.).
Barry, Geraldine M., M.B., M.S., F.R.C.S. (LW.).
Bell, J. G. Y., M.B., B.S., F.R.C.S. (KM.).
Boggon, R. H., M.B., M.S. (T.).
Brock, R. C., M.B., M.S. (G.).
Bromley, L., M.A., M.B., M.Ch. Camb., F.R.C.S. (G.).
Broster, L. R., O.B.E., M.A., M.D., M.Ch. Ox., F.R.C.S. (C.).
Bryan, C. W. G., M.C., F.R.C.S. (SM.).
Burns, B. H., B.A., B.Ch. Camb., F.R.C.S. (SG.).
Butler, E. C. B., M.B., B.S., L.R.C P., F.R.C.S. (L.).
Buxton, N. St. J. G. D., M.B., B.S., F.R.C.S. (KM.).
Cade, S., F.R.C.S. (W.).
Carling, E. R., M.B., B S., F.R.C.S. (W.).
Colquhoun, G.R.E., F.R.C.S. (SG.).
Cope, V. Z., B.A., M.D., M.S., F.R.C.S. (SM.).
Corbett, R. S., M.A., M.B., M.Chir. Camb., F.R.C.S. (B.).
Crook, E. A., M.A., M.B., M.Ch. Ox., F.R.C.S. (C.).
Davies-Colley, R., C.M.G., M.A., M.Ch. Camb., F.R.C.S. (G.).
Dix, V.W., M.A., M.B., B.Ch. Camb., F.R.C.S. (L.).
Doherty, W. D., M.A., M.Ch. Camb., F.R.C.S. (G.).
Donald, C., M.D., Ch.M. Aberd., F.R.C.S. (L.).
Eckhoff, N. L. B. V., M.B., M.S., F.R.C.S. (G.).
Edwards, A. T., M.A., M.D., M.Ch. Camb., F.R.C.S. (L.).
Edwards, H. C., M.B., M.S., F.R.C.S. (KM.).
Evans, A. H., O.B.E., M.D., M.S., F.R.C.S. (W.).
Everidge, J., O.B.E., F.R.C.S. (KM.).
Ewart, G. A., B.A. Camb., F.R.C.S. (SG.).
Fitzsimons, R. A., B.Sc., M.B., B.S., F.R.C.S. (C.).
Fitzwilliams, D. C. L., C.M.G., M.D., Ch.M. Edin., F.R.C.S., F.R.C.S.E. (SM.).
Flemming, C. W., M.Ch. Ox., F.R.C.S. (UM.).
Frankau, C. H. S., C.B.E., D.S.O., M.B., M.S., F.R.C.S. (SG.).

Gardham, A. J., M.B., M.S., F.R.C.S. (UM.).
Gordon-Taylor, G., O.B.E., M.A. Aberd., B.Sc., M.B., M.S., F.R.C.S. (M.).
Gould, E. L. P., M.A., M.Ch., D.M. Ox., F.R.C.S. (M.).
Handfield-Jones, R. M., M.C., M.B., M.S., F.R.C.S. (S.M.).
Henry, A. K., M.B., M.Ch., B.A.O. Dub. Reader (BP.).
Hosford, J. P., M.B., M.S., F.R.C.S. (B.).
Howard, R. J., C.B.E , M.B., M.S., F.R.C.S. (L.)
Hudson, R. V., F.R.C.S. (M.).
Hume, J. B., M.B., M.S., F.R.C.S. (B.).
Hunter, J. B., M.C., M.A., M.B., M.Ch. Camb., F.R.C.S. (KM.).
Joll, C. A., M.B., B.Ch. Brist., B.Sc., M.B., M.S., F.R.C.S. (LW.).
Kendall, A. W., M.B., M.S., L.R.C.P., F.R.C.S. (KM.).
Keynes, G. L., M.A., M.D. Camb., F.R.C.S. (B.).
Lake, N. C., D.Sc., M.D., M.S., F.R.C.S. (C.).
Lee, E. S., M.B., M.S., F.R.C.S. (W.).
Lewis, Emily C., M.B., M.S., F.R.C.S. (LW.).
Lindsay, E. C., C.B.E., B.Sc. N.Z., M.B., B.S., F.R.C.S. (L.).
MacLeod, A. C., M.B., B.S., F.R.C.S. (C.).
Marnham, R., M.Ch. Camb., F.R.C.S. (SG.).
Marshall, C. J., M.D., M.S., F.R.C.S. (C.).
Martin, E. K., M.B., M.S., F.R.C.S. (UM.).
Massie, G., M.B., M.S., F.R.C.S. (G.).
Maybury, B. C., M.B., B.S., F.R.C.S. (T.).
Milne, R., M.D., M.S., F.R.C.S. (L.).
Mitchiner, P. H., C.B.E., M.D., M.S., F.R.C.S. (T.).
Moore, A. M. A., F.R.C.S. (L.).
Muir, E. G., M.B., M.S., F.R.C.S. (KM.).
Mullally, G. T., M.C., M.S., F.R.C.S. (W.).
Neligan, G. E., M.C., M.A., M.B., B.Ch. Ox., F.R.C.S. (L.).
Nicholls, M. F., M.A., M.Ch. Camb., F.R.C.S. (SG.).
Norbury, L. E. C., O.B.E., M.B., B.S., F.R.C.S. (LW.).
Northfield, D. W. C., M.B., M.S., F.R.C.S. (L.).
Ogilvie, W. H., M.A., M.D., M.Ch. Ox., F.R.C.S. (G.).
Page, C. M., D.S.O., M.B., M.S., F.R.C.S. (T.).
Pannett, C. A., B.Sc., M.D., B.S., F.R.C.S. Prof. (SM.).
Patey, D. H., M.B., M.S., F.R.C.S. (M.).
Perry, A. C., M.B., M.S., F.R.C.S. (L.).
Pilcher, R. S., M.B., M.S., M.R.C.P., F.R.C.S. Prof. (UM.).
Porritt, A. E., M.A., M.B., M.Ch. Ox., L.R.C.P., F.R.C.S. (SM.).
Riches, E. W., M.C., M.B., M.S., F.R.C.S. (M.).
Roberts, J. E. H., O.B.E., M.B., B.S., F.R.C.S. (B.).
Robinson, R. H. O. B., B.A., M.B., B.Ch. Camb., F.R.C.S. (T.).
Romanis, W. H. C., M.A., M.B., M.Ch. Camb., F.R.C.S. (T.).
Ross, J. P., M.B., M.S., F.R.C.S. Prof. (B.).
Shattock, C. E., M.D., M.S., F.R.C.S. (LW.).
Slesinger, E. G., O.B.E., B.Sc., M.B., M.S., F.R.C.S. (G.).

Souttar, H. S., C.B.E., M.A., D.M., M.Ch. Ox., F.R.C.S. (L.).
Spencer, W. G., O.B.E., M.B., M.S., F.R.C.S. (W.).
Taylor, J., O.B.E., M.B., M.S., F.R.C.S. (UM.).
Thomas, C. P., F.R.C.S. (W.).
Turner, G. G., M.B., D.Ch. Durh., F.R.C.S., F.A.C.S. Prof. (BP.).
Turner, W., M.B., M.S., F.R.C.S., L.S.A. (W.).
Vick, R. M., O.B.E., T.D., M.A., M.Ch. Camb., F.R.C.S. (B.).
Wakeley, C. P. G., D.Sc., F.R.C.S. (KM.).
Walton, Sir A. James, K.C.V.O., B.Sc., M.B., M.S., F.R.C.S. (L.).
Warwick, W. T., M.A., M.B., B.Ch. Camb., F.R.C.S. (M.).
Webb-Johnson, Sir Alfred E., C.B.E., D.S.O., T.D., M.B., Ch.B. Manc., F.R.C.S. (M.).
Williams, B. W., M.B., B.Ch. Ox., F.R.C.S. (T.).
Williams, G. E. O., M.D., M.S., F.R.C.S. (UM.).
Wilson, H. W., M.B., M.S., F.R.C.S. (B.).
Wood, H. L , M.B., M.S., F.R.C.S. (KM.).
Wright, A. D., M.B., M.S., F.R.C.S., D.T.M. and H. (SM.).

Tropical Medicine

Buckley, J. J. C., D.Sc. N.U.I. (H.).
Fairley, N. H., O.B.E., D.Sc., M.D. Melb., F.R.C.P., D.T.M. and H. Camb. (H.).
Manson-Bahr, P. H., C.M.G., D.S.O., M.A., M.D. Camb., F.R.C.P., D.T.M. and H. Camb. (H.).

Venereal Diseases

Anwyl-Davies, T., M.D., B.S., M.R.C.P., M.R.C.S. (T.).
Burke, E. T., D.S.O., M.B., Ch.B. Glas. (L.).
Lloyd, V. E., M.C., M.B., B.S., L.R.C.P., M.R.C.S. (G.).
McElligott, G. L. M., M.A. Ox., L.R.C.P., M.R.C.S. (SM.).
O'Donovan, W. J., O.B.E., M.D., M.R.C.P., M.R.C.S. (L.).
Walker, K. M., M.B., B.Chir. Camb., F.R.C.S. (B.).

Zoology

Buxton, P. A., M.A. Camb., L.R.C.P., M.R.C.S. (Med. Entomol.) Prof. (H.).
Evans, Thomas James, M.A. Ox. (G.).
Wigglesworth, V. B., M.A., M.D., B.Ch. Camb. (Entomol.) Reader (H.).

Dentistry

Dental Anat.

Messenger, H. L., L.R.C.P., M.R.C S., L.D.S. (G.).
Pitts, A. T., D.S.O., L.R.C.P., M.R.C.S., L.D.S. (D.).
Shefford, A. D. E., L.D.S. R.C.S. Eng. (UM.).

Dental Materia Medica

Coleman, F., M.C., L.R.C.P., M.R.C.S., L.D.S. (BD.).
Doubleday, F. N., L.R.C.P., M.R.C.S., L.D.S. (G.).

Dental Mechanics

Bull, F. B., L.R.C.P., M.R.C.S., L.D.S. (G.).
Chapman, H., L.D.S. (Orthodontics) (L.).
Edwards, F. W. (D.).

Dental Prosthetics

Allen, A. G., L.D.S. (L.).
Fairbank, J. G. A., L.R.C.P., M.R.C.S., L.D.S. (B.).
Fenn, H. R. B., L.D.S. Liv., D.D.S. Penn. Prof. (G.).

Fry, W. K., M.C., L.R.C.P., M.R.C.S., L.D.S. (G.).
Milne, J. B., L.D.S. Edin. (KM.).

Dental Surgery

Ainsworth, N. J., M.C., L.R.C.P., M.R.C.S., L.D.S. (D.).
Allen, S. G., M.R.C.S., L.R.C.P., L.D.S. (L.).
Bennett, Sir Norman G., M.A., M.B., B.Ch. Camb., L.R.C.P., M.R.C.S., L.D.S. (D.).
Bullied, A., M.R.C.S., L.R.C.P., L.D.S. (G.).
Buxton, J. L. D., L.M.S.S.A., L.D.S. (UM.).
Clapham, H. D., L.R.C.P., M.R.C.S., L.D.S. (L.).
Claremont, L. E., M.D.S. Brist., L.R.C.P., M.R.C.S., L.D.S. (D.).
Coe, W. E., D.M.D. Harv., L.D.S. (KM.).
Fickling, B. W., L.R.C.P., M.R.C.S., L.D.S. (D.)
Fish, E. W., M.D., Ch.B., L.D.S. Manc., D.Sc. (SM.).
Greenish, V. A. F., L.D.S. (D.).
Hankey, G. T., L.R.C.P., M.R.C.S., L.D.S. (BL.).
Henry, C. B., L.R.C.P., M.R.C.S., L.D.S. (D.).
Herbert, W. E., L.R.C.P., M.R.C.S., L.D.S. Prof. (G.).
Herman, W. S., B.A. Camb., L.R.C.P., M.R.C.S., L.D.S. (L.).
Hooper, K., L.R.C.P., M.R.C.S., L.D.S. (G.).
James, J., L.D.S., R.C.S. Eng. (KM.).
James, W. W., O.B.E., F.R.C.S., L.D.S. (M.).
Jones, A. K. I., L.R.C.P., L.D.S. (UM.).
Keizer, W. R., L.R.C.P., M.R.C.S., L.D.S. (L.).
Lloyd-Williams, P., M.R.C.S., L.R.C.P., L.D.S. (T.).
McLeod, A. C. R., L.D.S. (UM.).
Marsh, L. R., L.D.S., R.C.S. Eng. (KM.).
Milne, J. B., L.D.S. Edin. (KM.).
Moore, A. S., L.D.S. (KM.).
Packham, A. L., L.R.C.P., M.R.C.S., L.D.S. (D.).
Pritchard, G. B., L.R.C.P., M.R.C.S., L.D.S. (Histol.) (G.).
Riddett, S. A., M.C., L.R.C.P., M.R.C.S., L.D.S. (D.).
Smale, H., L.R.C.P., M.R.C.S., L.D.S. (SM.).
Sprawson, E. C., M.C., D.Sc., L.R.C.P., M.R.C.S., L.D.S. (L.).
Steadman, S. F. St. J., L.R.C.P., M.R.C.S., L.D.S., D.P.H. (D.).
Stobie, H., L.R.C.P., M.R.C.S., L.D.S. (D.).
Wade, W. N. L., L.D.S. (KM.).
Walker, D. G., M.B., B.Ch., B.A.O., B.Dent.Sc. Dub. (D.).
Wright, J. A. S., L.D.S. (UM.).

GENERAL INFORMATION

Schools

BETHLEM ROYAL HOSPITAL, Monks Orchard, Eden Park, nr. Beckenham, Kent. *Physician Superintendent*—J. G. Porter Phillips, M.D., B.S., F.R.C.P.

Founded 1247. A centre for the teaching and practice of *Psychological Medicine*. Two courses of lectures and practical instruction for D.P.M. are held annually by arrangement: Autumn Course, Sept. to Dec.; Spring Course, Jan. to end of March. Daily clinical instruction classes. A course of clinical demonstrations is given quarterly to students of St. Bartholomew's Hospital.

Facilities for research in Pathological and Psychological Laboratories. Investigation and treatment in Physio-therapy and X-ray Departments.

BRITISH POSTGRADUATE MEDICAL SCHOOL, Ducane Rd., Hammersmith, W.12. Dean—Col. A. H. Proctor, D.S.O., M.D., M.S., F.R.C.S.E., I.M.S. Sub-Dean—C. E. Newman, M.D., F.R.C.P. Secy.—Paymaster Captain W. R. Scotland, R.N. (retired). Appointed and Recognized Teachers (v. *supra*), 12; others, 16.

Incorporated by Royal Charter 1931, for postgrad. instruction in clinical medicine, including Surgery, Obstetrics and Gynæcol., Pathol. and Radiol. A School of the Univ. for 5 yrs. from March 1, 1934. Students may be of either sex but must hold a Univ. degree or a qualification registrable in this country.

The School is associated with the Hammersmith Hospital, L.C.C., consisting of 462 beds. Students can join the School at any time and for any period; teaching daily in all Depts. from 10 A.M. to 4 P.M. Facilities also provided for research work approved by the Board of Studies. Refresher Courses for general practitioners are held from time to time. A course for the Diploma in Clinical Pathology commences annually in October. Courses of lectures in special subjects are arranged from time to time and are notified in the Journals.

FEES. Ordinary Hospital Practice: 6 gs. for 1 month, 12 gs. for 3 months, 21 gs. for 6 months. Refresher Courses, 5 gs. Diploma in Clinical Pathology, 40 gs.

A bureau has been established from which information regarding opportunities for postgraduate study in London can be obtained. Enquiries should be addressed to the Dean. *See* also App. IV. 11.

CHARING CROSS HOSPITAL, Medical School, Charing Cross, W.C.2. Dean—E. A. Crook, M.Ch., F.R.C.S. Secy.—Wyndham Edwards.

Founded 1821. Appointed and Recognized Teachers (v. *supra*)—27. *Fees*: entrance, 10 gs.; annual, 38 gs.; Students' Club, 4 gs. Scholarships, Exhibitions and Prizes of approx. £1000 in value awarded annually. Seven Registrarships, several Clinical assistantships and 27 House Posts filled annually. 300 beds; about 60 for paying patients to be added shortly. Admission restricted to 30 students per year (male students only). Each student is thereby assured of having a full complement of clinical material and is responsible for not less than 6 beds during clerkship and dressership.

COLLEGE OF THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Sq., W.C.1. Dean—H. Berry, B.Sc., A.I.C., Ph.C.

Founded 1842. Admitted as a School of the Univ. (in Pharmacy only) on Jan. 1, 1925. The School and the Pharmacological Laboratories were combined to form the College, Nov. 1932. Recognized Teachers—5 (v. *supra*); others—20. *Fees*: Course for the Chemist and Druggist Qualifying Examn., £47 : 12 : 6d.; for the Pharmaceutical Chemist Qualifying Examn. and for the B.Pharm. degree (2 years), £47 : 12 : 6d. p.a. Open to women students also.

GUY'S HOSPITAL, Medical School, St. Thomas's St., Borough, S.E.1. Dean—T. J. Evans, M.A. Secretary—J. H. E. Winston, F.C.I.S.

Founded in connexion with St. Thomas's, 1769; as a separate School, 1825. Appointed and Recognized Teachers—45 (v. *supra*). Library, 10,000 vols. Museum, 5000 specimens and 2000 drawings. 647 beds. Fully

equipped Dental Dept. with Lab. *Fees*: entrance, £28; annual, £49. Foundations in aid of Research: Trav. Studentship, £100; Studentship in Mat. Med., £60; in Path., £250; Dem'rship in Clin. Chem., £150; in Path., £320; Med. Research Fellowship, etc. Numerous prizes and entrance scholps. Resident appointments: numerous House appointments are made every 3 mths. from amongst the recently qualified students. Residential accommodation for 35 students. Furnished rooms, 19s. to 26s. Students' Publication: *G.H. Gazette*. Women students are not eligible for admission.

KING'S COLLEGE HOSPITAL, Medical School, Denmark Hill, S.E.5. Dean—J. B. Hunter, M.C., M.Ch., F.R.C.S. Vice-Dean—A. W. Kendall, M.S., F.R.C.S. Secy.—S. C. Ranner, M.A.

Appointed and Recognized Teachers—36 (v. *supra*); others—15. Full course in clinical and pathological work for degrees of London, Oxford, Cambridge, etc. (3 yrs.). *Fee* for complete course, £130. Twelve women students admitted annually. *Scholarships*: Scholarships of a total value of £1530 are offered annually (particulars on application). *Hostel* with accommodation for 80 men students. *Students' Publication*: *K.C.H. Gazette*.

LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Rd., S.W.1. Director—Prof. Sir John C. G. Ledingham, C.M.G., M.B., D.Sc., Sc.D., F.R.C.P., F.R.S. Secy.—A. L. White.

Founded 1891 for Research into causation, prevention, and treatment of diseases of men and animals. Open to a limited number of approved Research students of both sexes, usually without fee. Appointed and Recognized Teachers—8 (v. *supra*); 12 other members of scientific staff. There is a Research Studentship in Bacteriology and one in Biochemistry, v. App. II.

LONDON HOSPITAL, Medical College and Dental School, Turner St., E.1. Dean—A. E. Clark-Kennedy, M.D., F.R.C.P. Secy.—E. J. Burdon.

Founded 1781. Appointed and Recognized Teachers—49 (v. *supra*); others—48. Library includes Thompson Yates Research Library containing chief foreign periodicals for Anat., Physiol., and Path. Laboratories include those of the Bernhard Baron Inst. of Path. for Advanced Research. 885 beds. *Fees*: entrance, 10 gs.; annual, £48. 39 scholps. and prizes. Hostel for 75 students. 170 appointments available for students. *Students' Publication*: *L.H. Gazette*. Women students are not eligible for admission.

LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN, 8 Hunter St., Brunswick Sq., W.C.1. Dean—Miss E. Bolton, C.B.E., M.D., B.A. Warden and Secy.—Miss N. Moller, M.A.

Founded 1874. Appointed and Recognized Teachers—26 (v. *supra*); others—32. 327 beds. Special arrangements with several other Hospls. for Clin. study and dresserships, etc. Research Laboratories: Anat., Biol., Chem., Obst. and Gyn., Path., Pharmacol., Physics, Physiol. Courses for B.Sc. Hons. in Anat. and Physiol., as well as for Med. degrees and diplomas. *Fees*: £50 p.a. throughout the course. Students' chambers provided for 80 students. *Students' Publication*: *L.S.M. Gazette*. Post-graduate Scholarship in Medicine, v. App. II.

LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (Incorporating the Ross Institute), Keppel Street (Gower Street), W.C.1. Dean—Prof. Sir W. W. Jameson, M.A., M.D., F.R.C.P. Secy.—G. R. Oake, B.A.

This School was constituted by Royal Charter on April 1, 1924. In accordance with the terms of the Charter the School was recognized on Nov. 18, 1931, in the Faculty of Science and in the Faculty of Medicine in so far as the branches of Public Health, Hygiene, State Medicine, and Tropical Medicine are concerned. The school was built and equipped with a sum of $2,000,000 provided by the Rockefeller Foundation, who made the gift on the understanding that the British Government would make adequate grants for staffing and maintaining the School. It includes the following depts.: (1) Public Health; (2) Biochemistry and Chemistry as applied to Hygiene; (3) Bacteriology and Immunology; (4) Parasitology; (5) Entomology; (6) Epidemiology and Vital Statistics; (7) Clinical Tropical Medicine; (8) Ross Institute of Tropical Hygiene. The School provides for the training of public health officers, and for research in various branches of preventive medicine. Appointed and Recognized Teachers—28 (v. *supra*).

The Chair of Public Health has been endowed by the Prudential Assurance Company for a period of 7 yrs., and is known as the Prudential Chair of Public Health. The Professor of Helminthology, whose Chair has been endowed by Mr. W. J. Courtauld, is known as "The William Julien Courtauld Professor of Helminthology."

The courses of study in all branches of the work of the School are given in the premises in Keppel St. (Gower St.), which has excellent labs. and research rooms, a fine lecture theatre and classrooms, library and museum.

Diploma in Tropical Medicine and Hygiene. On Aug. 1, 1924, the School took over from the Seamen's Hospital Society the old School of Tropical Medicine. In the various hospls. of the Seamen's Hospital Society are always numerous cases of Trop. Diseases available for teaching purposes. Students must ordinarily be qualified med. practitioners. The funds available for encouraging research include the Tropical Diseases Research Fund, the Wandsworth Bequest, the Stanley Memorial and the Avebury Memorial Funds. (*See* Appendix II.) Research expeditions are equipped and maintained by the School. There are 3 courses of 3 months each (Laboratory and Clin. instruction) and 2 of 2 months each (Trop. Hyg.) designed for the D.T.M. and H. of the Conjoint Board and for candidates for the M.D. in Trop. Med. *Fees*: £40 for the whole course, or £25 and £15, respectively.

Diploma in Public Health. The course of study commencing late September extends over a period of 9 months' whole-time study, and is so arranged that students will be able to comply with all requirements of the Gen. Med. Council. The School provides instruction in Bacter., Parasit. (including Med. Ent.), Physiol. and Psychol., Chem., Physics, Biochem., and in Hyg., Pub. Health Admin., Epidemiol. and Vital Stats., Infectious Diseases and Sanitary Construction and Planning. Included in the syllabus are a number of special lectures by recognized experts in various public health problems, and a number of visits to carefully selected places of outstanding public health interest. The course of study is designed to enable cands. to proceed to the Academic Dipl. in Pub. Health instituted by the Univ. Fee for course, 54 gs.

Diploma in Bacteriology. The special course of study for the Dipl. in Bacteriol. covers a period of one academic year beginning in October. Fee for course, 54 gs.

Diploma in Psychology (*Industrial*). Special courses of study by arrangement.

In addition to the students taking the Diploma Courses, many are admitted to special courses of study and research in the various branches of the work of the School.

MAUDSLEY HOSPITAL, Denmark Hill, S.E.5. Medical Superintendent —E. Mapother, M.D., F.R.C.P., F.R.C.S. Director of Medical School and Central Pathological Laboratory—F. L. Golla, M.B., F.R.C.P.

Founded by the London County Council for research in Psychological Medicine, the teaching of this subject, and the treatment, on a voluntary basis, of those suffering from neuroses and from recoverable forms of mental disorder. The Hospital, which is similar in general character to the Neurological and Psychiatric Clinics of the Continent and America, and the associated Pathological Department, which serves all the Mental Hospitals and Mental Deficiency Institutions of the County of London (containing 35,000 patients), were admitted as a School of the University for research in Psychological Medicine on May 7, 1924. The Hospl. has 235 beds and an out-patient department. The Path. Dept. includes a Library and Laboratories for anatomical, biochemical, bacteriological, and experimental investigations. Diploma and other courses for undergraduate and graduate students. Facilities for research and for gaining experience. Ordinarily no charge is made for research work, and special grants-in-aid may be made.

MIDDLESEX HOSPITAL, Medical School, Mortimer St., W.1. Dean—H. E. A. Boldero, M.A., D.M., F.R.C.P. School Secy.—R. A. Foley, F.C.C.S.

Founded 1835. Appointed and Recognized Teachers—40 (v. *supra*); others—13. Over 580 beds, including *Cancer wing* (90); Bland-Sutton Institute of Path. with Museum and Labs.; Barnato-Joel Research Labs.; the S. A. Courtauld Institute of Biochemistry; the Ferens Institute of Otology; the Meyerstein Institute of Radio-Therapy. Scholarships, etc., worth over £1000 p.a. *Fees*: Entrance, £25; 5 annual, £45. No accommodation for women students.

THE ROYAL CANCER HOSPITAL (FREE), Fulham Rd., S.W.3. *Director of the Research Inst.*—Prof. E. L. Kennaway, D.Sc., M.D., F.R.S. *Research Chemist*—Prof. J. W. Cook, D.Sc., Ph.D., F.I.C., F.R.S. *Director of the Radiological Dept.*—P. Flood, M.R.C.S., L.R.C.P., D.M.R.; *Head of Physics Dept.*—W. V. Mayneord, D.Sc., F.Inst.P. Secy.—C. Cobbold, M.A.

Founded 1851. A School of the Univ. for the purpose of research in (i) Advanced Pathology, and (ii) Radiology in relation to malignant disease.

ROYAL DENTAL HOSPITAL OF LONDON SCHOOL OF DENTAL SURGERY, 32 Leicester Sq., W.C.2. Dean—H. Stobie, L.R.C.P., M.R.C.S., L.D.S. Secy. Superintendent—W. J. Ickeringill, A.S.A.A.

Founded 1858. Recognized Teachers—14 (v. *supra*); others—30. Library, Museum, and Laboratories. X-ray Dept. Students are admitted for the curriculum for the B.D.S. Degree and the L.D.S. Diploma. Four Entrance Scholarships of £50 p.a. tenable for 2 yrs. and four scholarships of £25 p.a. tenable during a student's 3rd and 4th yrs. at the School have been instituted. *Fees*: for the L.D.S., £73 : 10s. for 2 yrs.' Hospl. practice and Lectures, or, including 2 yrs.' Dent. Mechanics, £213 : 10s.; for the B.D.S., £35 annually for first two yrs., £36 : 15s. for third yr.; £71 : 15s. for fourth yr. The fees at the Genl. Hospital for lectures are not included.

ST. BARTHOLOMEW'S HOSPITAL, Medical College, West Smithfield, E.C.1. Dean—Sir Girling Ball, F.R.C.S. Warden—C. F. Harris, M.D., F.R.C.P.

Founded 1662. Appointed and Recognized Teachers—43 (v. *supra*).

Library: the largest of the kind in London. *Museum*: 12,000 specimens, 2000 casts and drawings. *Laboratories*, with facilities for research in Path., Pharmacol., etc. 762 beds. *Fees*: 220 gs. for whole curriculum; from 1st M.B., 190 gs. *Scholarships*: total annual value over £1900; four for Research (in Med., Surg., Path., etc.) are open to graduates of any Univ. studying at Bart.'s. Large Athletic Grounds. Students' Union, including Athletic Clubs and Abernethian Soc. *Publications*: *Hospital Reports*, annually, and *Journal* (Students'), monthly. Women students are not eligible for admission.

ST. GEORGE'S HOSPITAL, Medical School, Hyde Park Corner, S.W.1. Dean—M. F. Nicholls, M.A., M.Chir., F.R.C.S. Secy.—S. A. Williamson.

Founded 1752. Appointed and Recognized Teachers—19 (v. *supra*); others—19. 440 beds. *Fees*: entrance for Clinical course, 10 gs. Annual composition, 40 gs. Scholarships, etc., worth £180 p.a. for encouragement of research. *St. G.'s Gazette* is issued 3 times a year. Women students are not eligible for admission.

ST. MARY'S HOSPITAL, Medical School, Paddington, W.2. Dean—Sir Charles Wilson, M.C., M.D., F.R.C.P. Secy.—B. E. Matthews, B.A.

Founded 1852. Appointed and Recognized Teachers—40 (v. *supra*); others—25. *Fees*: Course for 1st M.B., 3 terms, 20 gs.; entire curriculum, £205. *Scholarships*: £210 (2), £200 (2), £25. *Clinical Units* in Med. and Surg. established in 1920–21. Entry is now restricted to students reading for Univ. degrees. *Students' Publication*: *St. M. H. Gazette.*

ST. THOMAS'S HOSPITAL, Medical School, Albert Embankment, S.E.1. Dean—H. L. Tidy, M.D. Ox., M.R.C.S., F.R.C.P. Secretary to the Medical School—R. J. C. Thompson, C.M.G., D.S.O., M.D., M.R.C.P.

Founded in 13th century. Recognized Teachers—37 (v. *supra*); others—36. Path. Dept. includes Museum with 5000 specimens. Large Laboratories for teaching and research. Hospl. beds, 664, in addition to teaching facilities at Lambeth Hospital and St. James Hospital, Balham. *Fees*: Tuition per annum, £50. Hostel accommodation for 50. Women students are not eligible for admission.

TROPICAL MEDICINE, LONDON SCHOOL OF HYGIENE AND, v. *supra.*

UNIVERSITY COLLEGE HOSPITAL, Medical School, University Street, W.C.1. Dean—Gwynne Williams, M.S., F.R.C.S. Vice-Dean—W. J. Pearson, D.S.O., M.C., M.A., M.D., F.R.C.P. Sub-Dean for Dental Students—J. L. Dudley Buxton, L.M.S.S.A., L.D.S., R.C.S. Eng. Secy.—R. Sealey.

The Med. School was separated from the Univ. Coll. Med. Faculty in 1905. A School of Final Medical Studies providing the full course in Clinical and Pathological work for the degrees of the Univs. of London, Oxford, Cambridge and other British Univs. and for the Diplomas of the Royal Colleges of Physicians and Surgeons. Recognized Teachers—30 (v. *supra*); others—52. *Library*, 30,000 vols. The *Charles Graham Laboratories*, established in 1902 for research in Path. 36 Resident Appointments annually. Assistantships in the Clinical Units at salaries from £250 to £900 p.a. *Fees*: course for Final M.B., B.S. or Conjoint Diploma—inclusive to cover complete Clinical Course, £45 p.a. for 3 yrs. Oxford and Cambridge students who have completed their course in Pathology: £40

p.a. for 3 yrs. *Scholarships, etc.*: annual value, £1250. *Students' Hostel*: Adjoining the Medical School is a specially equipped Hostel solely for students in the School. Large bed-sitting-rooms are available as well as Common Rooms. All meals are provided in the School Refectory. A member of the staff resides at the Hostel. *Residence* for Maternity students. *Publications*: *Prospectus, Transactions of Research Dept., Magazine* (Students'). 12 women students admitted annually.

The NATIONAL DENTAL HOSPITAL, founded in 1861, became the Dental Department of Univ. College Hospl. in 1914. Address: 187-191 Gt. Portland St. and 59 Devonshire St., W.1.

WESTMINSTER HOSPITAL, Medical School, Horseferry Rd., Westminster, S.W.1. Dean—Sir A. Abrahams, O.B.E., M.A., M.D., F.R.C.P. Secy.—J. C. Reeves.

Founded 1834. Recognized Teachers—28 (v. *supra*); others—13. *Fees*: £42 p.a. and 13 gs. entrance. Scholarships to the value of £600 offered annually. Male students only.

Institutions with Recognized Teachers

BROMPTON HOSPITAL FOR CONSUMPTION AND DISEASES OF THE CHEST, Fulham Rd., S.W.3. *Dean*—W. J. Fenton, M.D., F.R.C.P.

Recognized Postgraduate School of the University.

Founded 1841. Recognized Teachers—12 (v. *supra*).

Postgraduates may attend the Practice of the Hospital in all Depts. Fee, 1 g. per month.

The following Courses and Demonstrations are arranged: (i.) A week's Postgraduate Course in Surgery, comprising operations, ward-rounds, lectures, demonstrations of special techniques. Held in May and Dec. Fee, 5 gs. (ii.) A week's intensive Postgraduate Course of lectures and demonstrations. Held in Jan. and Oct. Fee, 3 gs. (iii.) Special Courses for candidates for the M.R.C.P. Held 4 times a year, one month before each examn. Each Class is limited to 6 Postgraduates. Fee, £3 : 13 : 6. (iv.) Special Courses for candidates for the Conjoint Board's examn. Each Class is limited to 6 Undergraduates. Fee, £1 : 11 : 6.

Arrangements can be made for Postgraduates to take a Special Course in the Radiological Dept. and also at the Sanatorium.

Clinical Assts. are appointed for a period of 3 months to the Med., Surg. and Special Depts. Not less than 4 days a week should be allowed by holders of these appointments. Fee, 5 gs. for 3 months.

Further information may be obtained from the Dean.

HOSPITAL FOR SICK CHILDREN, Gt. Ormond St., W.C.1. *Dean*—W. G. Wyllie, M.D., F.R.C.P. Secy.—H. F. Rutherford.

Founded 1852. Recognized Teachers—3 (v. *supra*); others—16.

Recognized in Bact., Dis. of Children, Surg.

NATIONAL HOSPITAL FOR DISEASES OF THE NERVOUS SYSTEM, Queen Square, London, W.C.1. *Dean*—J. G. Greenfield, B.Sc., M.D., F.R.C.P. Secy.—G. H. Hamilton.

Founded 1859. Recognized Teachers—14 (v. *supra*); others—6.

Recognized in Med., Neurology, Ophth., Oto-Rhino-Laryng., Surg. 9-week courses are given twice a year for students taking the Diploma in Psychological Medicine and others interested in Neurology.

ROYAL LONDON OPHTHALMIC HOSPITAL, City Rd., E.C.1. *Dean*—C. B. Goulden, O.B.E., M.D., F.R.C.S. Secy.—A. J. M. Tarrant.

Founded 1804. Recognized Teachers—4 (v. *supra*); others—8. Recognized in Ophth. Students, 196.

NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, N.W.3, with associated Farm Laboratories at Mill Hill. *Director*—Sir H. H. Dale, C.B.E., LL.D., D.Sc., M.D., F.R.C.P., F.R.S.

Founded 1914. Recognized Teachers—3 (v. *supra*).

Research work in Physiol., Pharmacol., and Biochemistry; Experimental Pathol., Bacteriol., and Protistol.; Microscopy and Physical Methods; and Biological Standards. All communications should be addressed to the Secy., Medical Research Council, 38 Old Queen St., S.W.1.

See also Appendix III. A. VII.

FACULTY OF LAWS

The teaching of the Univ. has been arranged on an inter-collegiate basis, the Profs. and Teachers of Univ. and King's Colls. and of the London Sch. of Econ. dividing the work among them, indicated below by (U.) (K.) (E.). For Indian and Ottoman Law, see Schl. of Oriental Studies.

PROFESSORS, LECTURERS, ETC.

Chatfield, H. S., M.A. Ox. (K.).

*Chorley, R. S. T., M.A. Ox.
Cassel Prof. of Comml. and Indust. L. (E.).

Davies, D. R. Seaborne, M.A. Camb., LL.B. Wales
(Engl. L.) (E.).

*Jennings, W. I., M.A., LL.B. Camb., LL.D.
Reader in English L. (E.).

*Jolowicz, H. F., M.A. Ox., M.A., LL.D. Camb.
Prof. of Roman L. and Lectr. in Jurispr. (U.).

*Kahn-Freund, O., Dr. Jur. Frankfurt, LL.M. (Engl. L.) (E.).

*Keeton, G. W., M.A., LL.D. Camb.
Prof. of English L. (U.).

Latham, R. T. E., B.A. Melb. and Ox. (K.).

Morgan, J. H., B.A. Ox., M.A., D.L., K.C.
Prof. of Constitutional L. (U.).

*Parry, D. Hughes, M.A., LL.M. Camb., B.A. Wales
Prof. of English L. (E.).

Phillips, O. H., M.A. Ox. and Dub., B.C.L. Ox., LL.B. Dub.
Reader in English L. (K.).

Plucknett, T. F. T., LL.B. Camb., M.A.
Prof. of Legal Hist. (E.).

Potter, H., Ph.D. Birm., LL.D.
Prof. of English L. (K.).

*Robson, W. A., B.Sc. (Econ.), LL.M., Ph.D.
Reader in Admin. L. (E.).

*Smith, H. A., D.C.L. Ox.
Prof. of Internat. Law (E.).

*Vesey-FitzGerald, S.G., M.A. Ox., LL.D., I.C.S.
Reader in Indian L. and L. of Palestine. (U.).

In addition the following teachers of Law not recognized by the University are on the staffs of the several Colleges.

Allemès, F., L. ès. L. Lille. (E.).

Crane, F. R., LL.B. (K.).

Dold, G. W. F., B.C.L. Ox., M.A., LL.B. (Roman Dutch L.) (U.).

Friedmann, W., Dr. Jur. Berlin, LL.M. (U.).

*Gilbert, A. S., LL.M. (U.).

Gold, J., LL.M. (U.).

Graveson, R. H., LL.M. Sheff., S.J.D. Harv. (K.).

Jennings, R. Y., B.A., LL.B. Camb. (E.).

Kiralfy, A. K., LL.M. (K.).

Rogers, P. H. T., B.A., B.C.L. Ox. (K.).

Schwarzenberger, G., Dr. Jur. Tübingen, Ph.D. (U.).

*Wynham-White, E. H., LL.B. (E.).

* Barrister-at-Law.

OTHER INSTITUTIONS HAVING RECOGNIZED TEACHERS

(1) Goldsmiths' College.*
(2) Battersea Polytechnic.
(3) East Malling Research Station.
(6) Jews' Coll.
(7) Northampton Polytechnic.
(8) Northern Polytechnic.
(9) Royal Veterinary Coll.
(10) Sir John Cass Tech. Inst.
(11) Chelsea Polytechnic.
(12) West Ham Municipal Coll.
(13) Woolwich Polytechnic.
(14) Maria Grey Training Coll.
(15) St. Mary's Coll., Paddington.
(16) Furzedown Training College.
(17) John Innes Horticultural Institution.
(18) Rothamsted Experimental Station.
(19) Royal Academy of Music.
(20) Royal Coll. of Music.
(21) Trinity Coll. of Music.

* Incorporated in the Univ.

NAMES OF RECOGNIZED TEACHERS

Note.—In the following list the names of the instns. are indicated by numerals—as shown above. Nos. omitted were assigned to Instns. which no longer exist, or which now have no recognized teachers. Teachers to whom only probationary recognition has been granted are not included in the list.

Agricultural Biology

Cutler, D. W., M.A. Camb. (18).

Agricultural Botany

Brenchley, Winifred E., D.Sc. (18).

Bacteriology

Jacobs, S. E., B.Sc., Ph.D., A.R.C.S. (10).
Lovell, R., M.Sc. Manc., M.R.C.V.S. (9).

Biochemistry

Richards, E. H., B.Sc., F.I.C. (Agric. Biochem.) (18).
Tattersfield, F., D.Sc. (18).

Biology, v. *supra*, Medical Schools

Botany

Barnes, B. F., D.Sc., Ph.D. (11).
Brett, Margaret, M.Sc. (8).
Duerden, H., B.Sc., Ph.D., A.R.C.S. (11).
Henderson, F. Y., D.Sc. Glas. (10).

Chemistry

Barnett, E. de B., B.Sc. (10).
Clough, G. W., D.Sc. Birm. (9).
Crowther, E. M., D.Sc. Leeds, D.I.C. (Soil C.) (18).
Davies, C. W., M.Sc. Wales (2).
Dorée, C., M.A. Ox., D.Sc. (11).
Drakeley, T. J., D.Sc., Ph.D., F.I.C. (8).
Goodway, N. F., M.Sc. (10).
Houston, A. H. J., M.Sc., A.I.C. (2).
Kenyon, J., D.Sc., F.I.C. (2).
King, H. J. S., Ph.D., M.Sc. (8).
Lowe, F. H., M.Sc. Manc. (11).
Roach, W. A., B.A., A.R.C.S., D.I.C. (3).

Rudge, E. A , M.Sc , Ph D. (12).
Russell, Sir E. J., O.B E., D.Sc. Ox. and Lond., F.R.S. (Agric. Chem) (18).
Skellon, J. H., B.Sc. Brist., M.Sc., A.I.C. (11).
Smith, F. W., M.Sc., A.I.C. (8).
Vogel, A. I., D.Sc., D.I.C (13).
West, R. W., D.Sc., A R.C.S., F.I.C. (8).

Chemistry, Organic

Crocker, J. C., M.A. Camb., D Sc., F.C.S. (11).
Richardson, D. H., M.Sc. (8).

Classics

Crump, Mary M., M.A., D.Lit. (Latin) (1).

Cytology

Darlington, C. D., D.Sc., Ph.D. (17).

Education, v. also Music

Cant, Mildred, B.A. (14).
Dean, A. E., M.A., M.Litt. (1).
Firth, Catherine B., D.Lit. (16).
Kaye, M., M.A., Ph.D. (1).
Maxwell, Edith A. M. (15).
Schonell, F. J., B.A. W. Aust., Ph.D. (1).
Silsby, Eleanor, M.Sc. (16).
Smith, Phyllis W., M.A. (14).
Terry, Edith, Med. and Mod. Lang. Trip. Camb. (16).
Williams, Mrs. E. M., M.A. (1).

Electrical Communications

Vinycomb, T. B., M.C., M.A. R.U.I. (13).

Engineering, Civil

Bolam, W. N., B.Sc. Edin. (7).
Brooks, W. H., Ph.D., B.Sc. (Eng.) (7).
Hamilton, K. W., B.Sc. (Eng.) (2).

Engineering, Electrical

Dover, A. T. (2).
Dowse, C. M., B.Sc. (Eng.) (7).
Freeman, G. F., M.Sc. (Eng.) (12).
Howgrave-Graham, R. P. (also Applied Physics) (7).
Mallett, E., D.Sc., M.I.E.E. (13).
Mann, H. C., B.Sc. (Eng.) (2).
Sims, L. G. A., D.Sc., Ph.D. Birm. (7).
Spencer, W. G., M.Sc. (Tech.) Manc. (13).

Engin., Mech., v. also E., Civil

Ashworth, M. H., B.Sc. Manc. (13).
Brooks, W.H., Ph.D., B.Sc. (Eng.) (7).
Davies, V. C., B.Sc. (2).
Dumbrill, W. E., B.Sc., A.R.C.S. (Fluids) (7).
Edmonds, H. M., B.Sc. (Eng.) (2).
Peck, W. J., M.Sc. (Eng.) Sheff. (2).
Richardson, D. (7).
Scoble, W. A., M.B.E., D.Sc. (Eng.), M.I.Mech.E. (13).

Engineering, Mech., and Surveying

Gladwyn, A. E., B.Sc. (Eng.) (12).

English Lang. and Literature

Brooks, B. G., B.A., Ph.D. Lond. (1).

Entomology

Massee, A. M. (3).
Williams, C. C., M.A., Sc.D. Camb. (18).

Genetics

Crane, M. B. (17).
Hall, Sir Daniel, K.C.B., M.A., D.Sc. Ox., LL.D. Aberd. and Camb., F.R.S. (17).

Geology

Fleet, W. F., M.Sc., Ph.D. (11).
Jones, F., Ph.D., M.Sc. (8).
Wooldridge, S.W., D.Sc. (10).

Horticulture

Hatton, R. G., C.B.E., M.A. Ox. (3).

Mathematics

Church, A. E. R., M.A., D.Sc. (10)
Cooke, R. G., D.Sc. (7)
Hayden, H. A., B.Sc. Wales, D.Sc (2)

Henderson, J. M. A., B.Sc. Edin., Ph.D. (10).
Littlejohn, E. S., M.Sc. Manc. (12).
Lowry, H. V., M.A. Camb. (13).
Ludlam, A. E., M.Sc. Birm. (11).
Martin, E. S., B.Sc., Ph.D. (8).

Medicine and Surgery, v. *supra* Medical Schools

Metallurgy

Brice, L. J., M.Sc. (11).
Naish, W. A., B.Sc., Ph.D., A.R.S.M., M.I.M.M., F.I.C. (11).
Singlehurst-Ward, L., B.Sc. (Eng.) Birm. (10).

Music

Bantock, Sir Granville, M.A. Birm., Mus.D. Edin. (21).
Brockless, G. F., Mus.D. Durh., F.R.C.O., A.R.C.M., L.R.A.M. (2).
Buck, Prof. Sir P. C., M.A., D.Mus. Ox., M.A. Dub., F.R.C.M. (20).
Carse, A., F.R.A.M. (19).
Colles, H. C., M.A., D.Mus. Ox. (20).
Dale, B. J., F.R.A.M., F.R.C.O. (19).
Dunhill, T. F., A.R.C.M. (20).
Dyson, G., D.Mus. Ox. (20).
Farjeon, H., F.R.A.M. (19).
Hinton, A., F.R.A.M. (19).
Howells, H. N., F.R.C.O., A.R.C.M. (20).
Hurd, R. J. W., LL.D., Ph.D., F.T.C.L. (21).
Kitson, C. H., M.A. Camb., D.Mus. Ox., F.R.C.O. (20).
Long, J. C., Mus.B. Ox. (21).
Lovelock, W., B.Mus. (21).
Marchant, S., C.V.O., D.Mus. Ox., F.R.A.M., F.R.C.O., F.S.A. Prof. (19).
Oldroyd, G., D.Mus. (21).
Regan, L. W. A., B.Mus. Ox., A.R.A.M., F.R.C.O. (19).
Roper, E. S., M.V.O., M.A., Mus.B. Camb. (21).
Rowley, A., A.R.A.M., F.R.C.O. (21).
Sowerbutts, J. A., B.Mus., F.R.C.O., A.R.A.M. (19).
Thiman, E. H., D.Mus. (19).
Waddington, S. P. (20).

Pedagogy, v. Education and Music

Pharmacy and Pharmacognosy

Morton, C., B.Sc. Lond., Ph.C., M.P.S. (11).

Physics, v. also Maths.

Charlesworth, J., M.Sc. Manc. (8).
Emsley, H. H., B.Sc. Brist. (App. P.) (7).
Evans, A. E., B.Sc. (2).
Freeman, L. J., B.Sc., Ph.D., D.I.C. (11).
Howgrave-Graham, R. P. (App. P.) (7).
Humphry, R. H., M.Sc. Birm. (10).
Keen, B. A., D.Sc. (18).
Laws, S. C., M.A. Camb., M.Sc. (7).
Mandell, W., M.Sc. Wales, B.Sc., Ph.D. (11).
Marsh, S., D.Sc. Wales, Ph.D. Gött. (2).
Nicol, J., B.A. Camb., B.Sc. (8).
Owen, D., B.A. Camb., D.Sc. (10).
Polson, W., M.A., B.Sc. Aberd. (12).
Symons, A. S. M., B.Sc., Ph.D., A.R.C.S., D.I.C. (2).
Vinycomb, T. B., M.A. R.U.I. (13).

Physiology

Beattie, Florence J. R., D.Sc. Belf. (11).

Plant Pathology

Smith, J. H., B.A. Ox., M.B., Ch.B. Edin. (18).
Wormald, H., D.Sc., D.I.C. (3).

Plant Physiology

Vyvyan, M. C., M.A. Camb. (3).

Semitic Languages

Büchler, A., Ph.D. Leip. (6).
Daiches, S., Ph.D. Leip. (6).
Epstein, I., D.Lit., Ph.D. (6).
Marmorstein, A., Ph.D. Heid. (Bible and Rabbinics) (6).

Soil Bacteriology

Thornton, H. G., B.A. Ox., D.Sc. (18).

Statistics

Yates, F., M.A. (18).

Veterinary Anatomy

McCunn, J., M.R.C.V.S., M.R.C.S., L.R.C.P. (9).

Veterinary Hygiene

Miller, W. C., M.R.C.V.S. (9).
Wooldridge, G. H., F.R.C.V.S. (9).

Veterinary Pathology

Minett, F. C., M.B.E., D.Sc., M.R.C.V.S. (9).

Veterinary Physiology

Bogue, J. Y., Ph.D. Edin., M.R.C.V.S. (9).

Zoology

Dawes, B., D.Sc., A.R.C.S., D.I.C. (10).
Hentschel, C. C., M.Sc. (11).

GENERAL INFORMATION

[(*a*) Principal. (*b*) Subjects in which recognized. (*c*) Number of students.]

1. UNIVERSITY OF LONDON GOLDSMITHS' COLLEGE, New Cross, S.E.14. Incorporated in the Univ. Warden, and Principal of the Training Dept.—A. E. Dean, M.A., M.Litt. Vice-P'pals. of Training Dept.—R. A. Raven, M.A., and Miss D. M. E. Dymes, M.A.

Opened in 1905 in buildings presented by the Goldsmiths' Company, whose "Technical and Recreative Institute" had been carried on therein since 1891. Open to both sexes. Recognized Teachers—10 (*v. supra*)—Classics, Educn. Engl., French, Geog., Hist., Maths.; others—98.

Training Department. Recognized by Bd. of Educn. as a Training Coll. Ordinary course—2 yrs., or for B.A. (General) or B.Sc. (General) degree—3 yrs Lectrs. and Instrs.—38. *Annual fee* for tuition, £25. Hostels provide accommodation for nearly all the women and most of the men students.

School of Art (Day and Evening). Headmaster and 16 Assts. *Fees*: Day, £5 to £15; Evening, 13s. for any one sessional class or £1 for an inclusive course on three evenings.

The Evening Department of Adult Education. Provides opportunities of non-vocational study for men and women. *Fees*: 10s. for any one sessional class or £1 for an inclusive course on any number of evenings.

2. BATTERSEA POLYTECHNIC, Battersea Park Rd., S.W.11. (*a*) G. F. O'Riordan, B.Sc. (Eng.), M.I.Mech.E., M.I.A.E. (*b*) Chem., Engin. (Civ., Elec., Mech.), Maths., Music, Physics. (*c*) 3015.

3. EAST MALLING RESEARCH STATION, East Malling, Kent. (*a*) *Director*—R. G. Hatton, C.B.E., M.A. Ox., D.Sc. (*b*) Fruit Production (including Horticulture (Pomology), Statistics, Plant Physiol., Biochem., Plant Pathol., Entomol.). For postgraduate research students only. (*c*) Maximum accommodation, 12.

6. JEWS' COLLEGE, Woburn House, Tavistock Sq., W.C.1. (*b*) Hebrew, Semitics. (*c*) 32

7. NORTHAMPTON POLYTECHNIC, St. John St., E.C. 1. (*a*) S. C. Laws,

M.A., M.Sc. (*b*) Engin. (Civil, Mech., Aeronaut., Elec., Elec. Communication), Physics, Chem., Maths., Applied Optics. (*c*) 4000.

8. NORTHERN POLYTECHNIC, Holloway Rd., N.7. (*a*) T. J. Drakeley, D.Sc., Ph.D., F.I.C. (*b*) Bot., Chem., Geol., Maths., Physics. (*c*) 3635.

9. ROYAL VETERINARY COLLEGE, Gt. College St., Camden Town, N.W.1. (*a*) Prof. J. B. Buxton, M.A., F.R.C.V.S., D.V.H. (*b*) Chem., Vet. Anat., Vet. Hyg., Vet. Path. and Bact., Biol., Histol., Physiol. (*c*) 400.

10. SIR JOHN CASS TECHNICAL INSTITUTE, Jewry St., Aldgate, E.C.3. (*a*) G. Patchin, A.R.S.M., M.I.M.M. (*b*) Bot., Chem., Geol., Maths., Physics, Zool. (*c*) 2000 (approx.).

11. CHELSEA POLYTECHNIC, Manresa Rd., Chelsea, S.W.3. (*a*) F. J. Harlow, M.B.E., Ph.D., B.Sc., F.Inst.P., A.R.C.S. (*b*) Bot., Chem., Geol., Maths., Metall., Music, Pharm., Physics, Physiol., Zool. (*c*) Day, 1093; Evg., 2021.

12. WEST HAM MUNICIPAL COLLEGE, Romford Rd., West Ham, E.15. (*a*) H. Baker, M.Sc., Ph.D. (*b*) Chem., Engin. (Elec., Mech.), Maths., Physics, Surveying. (*c*) Day, 600; Evg., 1580.

13. WOOLWICH POLYTECHNIC, William St., Woolwich, S.E.18. (*a*) E. Mallett, D.Sc., M.Inst.C.E., M.I.E.E., F.Inst.P. (*b*) Chem., Engin. (E., M.), Maths., Phys. (*c*) 4000.

14. MARIA GREY TRAINING COLLEGE, Salusbury Rd., Brondesbury, N.W.6. (*a*) Miss Theodora Day, M.A. (*b*) Educn. (*c*) 180.

15. ST. MARY'S COLLEGE, 34 Lancaster Gate, W.2. (*a*) Miss E. A. M. Maxwell, M.A. Camb. (*b*) Teachers' Diploma of London and Camb. Univs., Teachers' Certif. of Nat. Froebel Foundation. (*c*) 100.

16. FURZEDOWN TRAINING COLLEGE, Welham Rd., Mitcham Lane, S.W. 17. (*a*) Miss K. I. Bradley, B.A. (*b*) Pedagogy. (*c*) 257.

17. JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Rd., Merton, S.W.19. *Director*—Sir Daniel Hall, K.C.B., LL.D., M.A., F.R.S. (to 30.9.39). C. D. Darlington, D.Sc.Lond. (from 1.10.39). (*b*) Genetics and Cytology. (*c*) 10 (research only). *V. also* App. III. A. VI.

18. ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts. *Director*—Sir E. John Russell, D.Sc., F.R.S. (*b*) Science (in its application to Agric.). For research students only. *V. also* App. III. A. I.

19. ROYAL ACADEMY OF MUSIC, Marylebone Rd., N.W.1. (*a*) Prof. Stanley Marchant, C.V.O., D.Mus.Ox., F.S.A., F.R.A.M. (*b*) All branches of Music, theoretical and practical.

20. ROYAL COLLEGE OF MUSIC, Prince Consort Rd., S. Kensington, S.W.7. *Director*—George Dyson, D.Mus. Ox., F.R.C.M., F.R.C.O., Hon. R.A.M. (*b*) All Music subjects. (*c*) About 650.

21. TRINITY COLLEGE OF MUSIC, Mandeville Place, W.1. (*a*) E. Stanley Roper, M.V.O., M.A., Mus.B. (*b*) All subjects for the Musical and Arts (Music) degrees of Lond. and other Univs. (*c*) Univ. degree students, 12.

VICTORIA UNIVERSITY OF MANCHESTER

Founded 1880

VISITOR—H.M. THE KING IN COUNCIL.

CHANCELLOR—Rt. Hon. the EARL OF CRAWFORD AND BALCARRES, P.C., K.T., D.C.L., LL.D. Camb., Manc., Edin., St. And., Litt. D. Liv., F.R.I.B.A., F.R.S.

VICE-CHANCELLOR—Prof. JOHN S. B. STOPFORD, M.D., Sc.D., D.Sc., F.R.S.

PRO-VICE-CHANCELLORS—Prof. F. C. THOMPSON, B.Sc. Lond., D.Met. Sheff., M.Sc.; Prof. D. ATKINSON, B.A. Ox., M.A.

CHAIRMAN OF THE COUNCIL—Sir CHRISTOPHER T. NEEDHAM, D.L., B.A.

TREASURER—Sir ERNEST D. SIMON, M.A.

REGISTRAR—NORMAN SMITH, D.Sc.

BURSAR—G. W. KAYE, M.A.

LIBRARIAN—M. TYSON, M.A., Ph.D.

Telephone: Manchester, Ardwick 2681.

TEACHING STAFF

Accounting

Wilkinson, R. H. E., F.C.A. Lectr.
Jones, M. Wheatley, B.Com. Asst. Lectr.

Agriculture, v. Bot., Chem., Econ., Zool.

Anatomy and Histology

Jones, F Wood, D.Sc. Lond., Adel. and Melb., M.B., B.S. Lond., F.R.C.S., F.R.S. Prof.

Lecturers

Stewart, D., D.Sc., M.R.C.S., L.R.C.P.
Cooper, Eugenia R. A., M.Sc., M.D. (Histology).
Jefferson, G., M.S. Lond., F.R.C.S. (Applied Anat.).
Paterson, R. S., M.D., D.M.R.E. Camb. (Applied Anat.).
Platt, H., M.S. Lond., M.D., F.R.C.S. (Applied Anat.).
Brockbank, W., M.A., M.D. Camb., M.R.C.P. (Applied Anat.).
Simmons, H. T., B.Sc., Ch.M., F.R.C.S. (Applied Anat.).
Patterson, E. L., B.Sc., M.B., Ch.B. Asst. Lectr.

Demonstrators

Cranna, D. D., M.B., Ch.B., M.R.C.S., L.R.C.P.
Ball, I. W., M.B., Ch.B.

Architecture

Cordingley, R. A., M.A., F.R.I.B.A., M.T.P.I. Prof. and Director of the School.
Halliday, F. L., A.R.I.B.A., A.M.T.P.I. (Town Planning) Sr. Lectr.

Lecturers

Williams, J.
Nunn, J. P., B.A., A.R.I.B.A.
Hickey, D., LL.B. (Town Planning Law).
Chapman, W. D., A.I.A.A., A.M.T.P.I. (Town Planning Practice).

Johnson, Albert, M.Sc. Durh., F.R.San.I., M.Inst. Mun. & Cy.E., F.I.S.E. (Engin. for Town Planning).
Leeming, E. L., M.Sc.Tech., M.I.C.E.,M.Inst. Mun. & Cy.E. (Surveying for Town Planning).
Wilenski, R. H., M.A. (Hist. of Art) Sp. Lectr.
Edge, R. (Decoration) Sp. Lectr.
Hunt, W. P., Dip.Arch., Dip.T.P., A.R.I.B.A., A.M.T.P.I. Asst. Lectr.
Malpass, J. C. L. (Life Drawing) Sp. Instr.

Studio Assistants
Buckley, A. S., Dip.Arch.
Ostick, C. D., Dip.Arch.

Banking
Cunliffe, W. Drummond-Fraser Lectr.

Botany
Drummond, J. M. F., M.A. Camb., M.Sc. George Harrison Prof. and Director of Bot. Labs. and Experimental Grounds.
Lang, W. H., M.B., C.M., D.Sc., LL.D. Glas., M.Sc., F.R.S. (to 29.9.39.) (Cryptogamic B.) Barker Prof.

Sr. Lecturers
Smith, A. E. H., B.Sc. Edin. (Agric. Bot.).
Howarth, W. O., D.Sc.
Sansome, F. W., B.Sc.Agr., Ph.D. Edin. (Hortic.).

Lecturers
Manton, Irene, B.A., Ph.D. Camb.
Warne, L. G. G., M.Sc., Ph.D. Brist.

Asst. Lecturers
Orr, H. R., B.Sc., Ph.D. Edin.
Luckwill, L. C., B.Sc., Ph.D. Brist.
Colson, Barbara, B.Sc., Ph.D. Lond. (Mycol.) Res. Asst.

Chemistry, v. also Physics, Physiol., Technol.
Todd, A. R., D.Sc. Glas., Dr. phil. nat. Frankfurt-a-M., D.Phil. Ox. Sir Samuel Hall Prof. and Director of Chem. Labs.
Polanyi, M., M.D., Ph.D. Budap. M.Sc. (Phys. C.) Prof.
..... (Stoichio Chem.) Lectr.

Sr. Lecturers
Campbell, C., D.Sc. Asst. Dir. of Chem. Labs.
Fairbrother, F., D.Sc.
Burkhardt, G. N., M.Sc., Ph.D., F.I.C.

Lecturers
Henry, D. C., M.A. Camb.
Herbert, J. B. M., M.Sc.
Spring, F. S., B.Sc., Ph.D., Liv., D.Sc.
Evans, M. G., M.Sc.
Gillam, A. E. M. G., D.Sc. Liv., F.I.C.
Stewart, R., B.Sc., Ph.D. Edin. (Agric. Chem.).
Smith, Norman, D.Sc. Hon. Spec. Lectr.

Asst. Lecturers
Warhurst, E., M.Sc., Ph.D.
Lythgoe, B., B.Sc., Ph.D.

Chinese
Mead, E. W., M.A. Camb. (C. Lang. and Commerce.) Reader.

Classics, v. also Theol.
Webster, T. B. L., M.A. Ox. and Manc. (Greek) Hulme Prof.
Semple, W. A., M.A. Belf., Ph.D. Camb. (Latin) Hulme Prof.
Husband, Jeanie, B.A. Liv. Sr. Lectr.

Lecturers
McLachlan, Rev. H., M.A., D.D. (Hellenistic Gk.).

Woodcock, E. C., M.A. Camb. (Latin).
Davison, J. A., M.A. Ox.
Palmer, L. R., B.A. Wales, Ph.D. Camb. and Vienna.
Wycherley, R. E., B.A. Camb.
Cook, R. M., M.A. Camb.
Asst. Lecturer
Morrison, J. S., B.A. Camb.

Crystallography

Miers, Sir H. A., M.A., D.Sc. Ox., Sheff., and Manc., D.C.L. Ox., LL.D. Liv., Ph.D. Christ., F.R.S. Hon. Prof.
Buckley, H. E., D.Sc. Senr. Lectr.

Dentistry, v. *infra*

Economics and Commerce, v. also Acctg., Banking, Law, Statistics
Hicks, J. R., M.A., B.Litt. Ox., M.A. Camb., D.Sc. (Econ.) Lond. (Polit. Econ.) Stanley Jevons Prof.
Jewkes, J., M.Com. (Social Econ.) Prof.
Redford, A., M.A., Ph.D. (Econ. Hist.) Reader.
Ashton, T. S., M.A. (Curr. and Fin.) Reader.
Jones, Arthur, B.Litt. Ox., B.Sc. Wales (Agr. Econ.) Reader.
Stafford, J., M.A. (Econ.) Lectr.
Chester, D. N., M.A. (Admin.) (Pub. Admin) Lectr.
..... Asst. Lectr.
Dennison, S. R., B.A. Camb., M.A. Durh. Asst. Lectr.
Willan, T. S., M.A., B.Litt., D.Phil. Ox. (Econ. Hist.) Asst. Lectr.
Collier, Frances, M.A. (Comm. and Admin.) Gartside Res. Asst.
Res. Assistants
Jarmain, J. R., M.A. (Admin.).
Spann, R. N., B.A. Ox.
Staff Tutors (Tutorial Classes)
Cheshire, G. A., B.A. Lond.
.....

Education

Oliver, R. A. C., M.A., B.Ed., Ph.D. Edin. Sarah Fielden Prof. and Director of Dept.
Findlay, J. J., M.A. Ox., Ph.D. Leip., M.Ed. Hon. Prof.
Hicks, W. C. R., B.A. Lond., D.Phil. Erlangen Sr. Lectr.
Lecturers
Start, Laura E., M.Ed.
Eggar, Margaret E., N.F.U.
Conway, Gladys, B.A. Liv.
Clarke, Winifrid S., M.Sc. (Phys. Ex.).
Borthwick, Phyllis M., M.Sc. Brist., B.Sc. Lond.
Haycocks, N., M.A.
Wood, H. P., M.Sc. Durh.
Gregory, Alys L., M.A., Ph.D.
Jenkinson, A. J., M A. Camb.
Jenkin-Jones, Chrystie M., B.A. Wales Hon. Lectr.
Collins, Hilda F. (Handwork and Drawing) Asst.
Ashworth, Florence M., B.A. (Speech Trg.) Asst.
Hodgkins, Rev. W., M.A. (Speech Trg.) Asst.
Procter-Gregg, H., B.A., Mus.B. Camb., A.R.C.M. (Singing) Instr.
Middleton, Edith (Gardening) Instr.
Med. Offs. for Tr. Dept.
Melland, C. H., M.D. Lond., B.Sc., F.R.C.P. (men).
Chisholm, Catherine, C.B.E., B.A., M.D. (women).

Education of the Deaf

Ewing, Irene R., M.Sc. Ellis Llwyd Jones Reader.
Ewing, A. W. G., M.A. Edin., Ph.D. Hon. Sp. Lectr.
Littler, T. S., M.Sc., Ph.D. (Acoustics) Sp. Lectr.

Elliott, Beatrice M. Asst. Lectr.
Lambert, V.F., Ch.M., F.R.C.S.Ed. Hon. Consult. Otologist.

Electro-Chemistry, v. Technol.

Electro-Technics

Jackson, W., D Phil. Ox., D.Sc., F.Inst.P. Edward Stocks Massey Prof.
Gerrard, H., M.Sc., F.I.P. Sr. Lectr.
Higham, J., M.Sc. Lectr
..... Asst. Lectr.

Engineering, v. also Technol.

Gibson, A. H., LL.D. St. And., D.Sc., M.Inst.C.E., M.I.Mech E. Beyer Prof. and Director of Whitworth Labs.
Mason, C. M., M.Sc. Clifton Lectr.
Baker, H. W., D.Sc. Sr. Lectr.

Lecturers

Jones, Eric, M.Sc.
Mucklow, G. F., D.Sc.
Allen, Jack, M.Sc.
Kastner, L. J., M.A. Camb., M.Sc. Asst. Lectr.
Buckingham, F., B.Sc. Lond. Sp. Lectr.

English Language and Lit.

Charlton, H. B., M.A. Leeds and Manc. (E. Lit.) Taylor Prof.
..... (E. Lang.) Smith Prof.
Wright, J. D., M.A. (E.Lit.) Sr. Lectr.

Lecturers

Harmer, Florence E., M.A. Camb., B.A. Lond.
Brook, G. L., B.A., Ph D. Leeds (E. Lang.).
Knights, L. C., M.A. Camb. (E.Lit.).

Asst. Lecturers

Jump, J. D., M.A. Liv. (E. Lit.).
Gordon, Mrs. Ida L., B.A., Ph.D. Leeds (E. Lang.).

French Language and Lit.

Vinaver, E., M.A. Ox. and Manc., B.Litt. Ox., D. ès L. Paris Prof.
Pope, Mildred K., M.A. Ox. and Manc., D. de l'U. Paris, to 29.9.39 (Fr. Lang. and Rom. Philol.) Prof.
Crump, Phyllis E., M.A. Lond. and Manc. Sr. Lectr.
Marks, J., M A. Sr. Lectr.
Reid, T. B. W., M.A., LL.B. Dub., L. ès L. Montp. Lectr.
Wildman, C H., M.A. Ox.
Whitehead, F., M.A., D.Phil. Ox. (from 1.10.39) Lectr.

Asst. Lecturers

West, F., B.A. Sheff.
Niklaus, R., B.A., Ph.D. Lond., L. ès L. Lille
Gadoffre, G. F. A., L. ès L., Dip. d'Études supérieures, Paris
Wildman, Lucy Asst.
Burnet, Alice M , M.A. Ox. Asst.

Geography

Fleure, H. J., D.Sc. Wales, M.A., F.R.S. Prof.
Fitzgerald, W., M.A. Liv. Sr. Lectr.
Wright, Mabel C., A.R.C.S.I. (to 29.9.39) Sp. Lectr.
Davies, Elwyn, M.A. Wales, M.Sc., Ph.D. Lectr.
Pye, N., B.A. Asst. Lectr.

Geology, Palæont., and Petrol.

Pugh, W. J., O.B.E., B.A., D.Sc. Wales, M.Sc. Prof.
Straw, S. H., M.Sc. Lond. Sr. Lectr.
Williams, N. T., B.Sc. Wales (Mining G) Lectr.
Morton, E., M.Sc. (Applied Geol.) Sp. Lectr.
Deer, W. A., Ph.D. Camb., M.Sc. Asst. Lectr.
Agrell, S. O., B.A. Camb. Asst. Lectr.

German Lang. and Lit.

Butler, Elsie M., M.A. Camb. Henry Simon Prof.

Pickering, F. P., B.A. Leeds, Ph.D. Breslau Lectr.
Tymms, R. V., B.A. Ox. Asst. Lectr.
Schneider, K., Dr.Phil. Giessen Asst.

Hebrew, v. Theol.—Semitic Langs.

Histology, v. Anat., Physiol., Pathol.

History, v. also Econ., Theol.
Jacob, E. F., M.A. Ox. and Manc. D.Phil.Ox. (Mediæval H.) Prof.
Atkinson, D., B.A. Ox., M.A. (Ancient H.) Prof.
Namier, L. B., M.A. Ox. and Manc. (Mod. H.) Prof.
Tait, J., M.A., Litt.D. Ox. and Manc., F.B.A. Hon. Prof.
Hughes, Edward, M.A. (Mod. and Military Hist.). Sr. Lectr.
Atkinson, Kathleen M. T., M.A. Ox. (Ancient H.) Sp. Lectr.
Tupling, G. H., M.A., B.Sc., Ph.D. Lond. (Local H.) Sp. Lectr.

Asst. Lecturers
Willan, T. S., B.A., B.Litt., D Phil. Ox. (Econ. H.)
Hussey, Joan M., M.A., B.Litt. Ox., Ph.D. Lond.
Roskell, J. S., M.A.
Bolsover, G. H., M.A. Liv., Ph.D. Lond.

Horticulture, v. Botany

Industrial Psychology, v. Psychology

Italian [Prof.
Bullock, W. Ll., M.A., Ph.D. Harv.
Neri, Nicoletta, Dott. Lett. Turin Asst.

Law
Eastwood, R. A., LL.D. Prof.
Wortley, B. A., LL.M. Leeds (Jurisprud. and Comp. L.) Reader.

Lecturers
Gandy, C., B.A. Ox.
Towns, F. W., LL.M.
Blank, D., LL.B.
Crane, F. R., LL.B. Lond. (Tutor for Articled Clerks).
Cantley, J. D., LL.B.
Driver, J. E., LL.M.
Hesling, Edith, LL.B. Asst. Lectr.
Cooper, W. M., LL.M. Asst. Lectr.

Mathematics, v. also Technol.
Mordell, L. J., B.A. Camb., M.Sc., F.R.S. (Pure M.) Fielden Prof.
..... (Applied M.) Beyer Prof.

Bailey, W. N., M.A., Sc.D Camb., M.Sc. Lond., D.Sc. (Pure M.) Richardson Lectr.

Lecturers
Eagle, A., B.Sc. Lond., A.R.C.S.
Cowling, T. G., M.A., D.Phil. Ox.

Asst. Lecturers
Du Val, P., B.Sc. Lond., Ph.D. Camb.
Davenport, H., M.A., Sc.D. Camb., B.Sc.
Sawyer, W. W., B.A. Camb.
Squire, H. B., M.A. Ox.
Lord, R. D., M.Sc. Lond. Lecture Asst.

Medicine, v. *infra*

Metallurgy and Metallography, v. also Technol.
Thompson, F. C., B.Sc. Lond., D.Met. Sheff., M.Sc. Prof.
Jones, E. O., B.Sc. Lond., A.R.S.M. (Non-Ferrous Metall.) Lectr.
Cuthbertson, J. W., M.Sc. (Electro-Metall.) Lectr.
Latin, A., B.Eng., Ph.D. Liv. Asst. Lectr.

Military Organization and Tactics, v. also Hist.
York, Capt. F. R. Hon. Lectr.

Mining, v. Geology

Music

Procter-Gregg, H., B.A., Mus.B. Camb., A.R.C.M. Lectr.
Forbes, R. J., Hon. R.A.M., F.R.C.M. Sp. Lectr.
Dawber, H. M., F.R.C.O. Sp. Lectr.
Dickson, E. C. S., B.A. Camb., Ph.D. Bonn. (Acoustics) Sr. Lectr.

Palæography

Tyson, M., M.A., Ph.D. Lectr.

Philosophy, v. also Theol.

Ritchie, A. D., M.A. Camb. and St. And. Sir Samuel Hall Prof.
Teale, A. E., B.A. Leeds Lectr.

Physics, v. also Electro-Technics and Elect. Engin.

Blackett, P. M. S., M.A. Camb., F.R.S. Langworthy Prof. and Director of Physical Labs.
Hartree, D. R., M.A., Ph.D. Camb., M.Sc., F.R.S. (Theoret. Phys.) Prof.
Henry, D. C., M.A. Camb. (Colloid Phys.). Reader.

Sr. Lecturers

Nuttall, J. M., D.Sc., F.I.P.
Dickson, E. C. S., B.A. Camb., Ph.D. Bonn.
Brentano, J. C. M., D.Sc. Munich and Manc., F.I.P.

Lecturers

Bell, H., M.A. Edin.
Tolansky, S., B.Sc., Ph.D. Durh.
Sutherland, G. A., M.A. Camb. Sp. Lectr.

Asst. Lecturers

Lovell, A. C. B., B.Sc., Ph.D. Brist.
Rochester, G. D., M.Sc., Ph.D. Durh.
Wilson, J. G., M.A. Camb.

Physiology

Raper, H. S., C.B.E., D.Sc., M.B., Ch.B. Leeds, M.Sc., F.R.C.P., F.R.S. Brackenbury Prof.
Lamb, F. W. J. A., B.A., M.D., D.P.H. Dub. (Human Physiol.) Reader.

Lecturers

Schlapp, W., M.B., Ch.B., B.Sc., Ph.D. Edin. (Exper. P.).
Kendal, L. P., Ph.D. Camb., M.Sc (Physiol. Chem.).

Hon. Asst. Lecturers

Langley, G. J., M.B.E., M.D., B.S. Lond., F.R.C.P.
Diggle, F. H., O.B.E., M.B., Ch.B., F.R.C.S., F.R.C.S.E.
Woolham, J. G., M.D., D.P.H.
Griffiths, D. Ll , B.Sc., M.B., Ch.B., F.R.C.S. (Applied P.) Asst. Lectr.

Demonstrators

Collier, H. O. J., B.A. Camb. (Compar. P.).
Mackay, I. F. S., L.R.C.P., L.R.C.S.I. (Human P.).
Jackson, H., M.Sc., Ph.D. (Physiol. Chem.).

Psychology [Prof.

Pear, T. H., B.Sc. Lond., M.A.
James, H. E. O., B.A., M.Sc. Lectr.
Wyatt, S., D.Sc., M.Ed. Sp. Lectr.

Pub. Administration, v. Econs. and Commerce

Russian

Trofimov, M. V., M.A. Pet. and Manc. Sir William Mather Prof.

Semitic Languages, v. Theol.

Spanish [Sr. Lectr.

Rees, J. W., M.A. Ox., B.A. Wales
Speakman, S. O., B.A. Ox. Asst. Lectr.
Meana, L., Lic. en Let. Madrid. Asst.

Statistics

Campion, H., M.A. Com. (Econ. Stat.) Robert Ottley Reader.

Technology, v. *infra*

Theology, v. *infra*

Veterinary Hygiene, v. *infra* Bacteriol. and Prev. Med.

Zoology

Cannon, H. G., M.A., Sc.D. Camb., D.Sc. Lond., M.Sc., F.R.S. Beyer Prof.

Brown, F. J., M.Sc. Birm. Sr. Lectr.

Miles, H. W., M.Sc. Brist., D.Sc., Ph.D. (Agr. Entomol.) Sr. Lectr.

Brough, J., B.Sc. Durh. Lectr.

Millott, N., M.Sc. Sheff. Lectr.

Brough, Margaret C., B.Sc., Ph.D. Lond. Demr.

MacGill, Elsie I., M.Sc. (Entomol.) Res. Asst.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*).

Anæsthetics

Hill, E. F., M.D., M.R.C.S., L.R.C.P. Lectr.

Bacteriology, v. *infra*

Cancer Research

Twort, J. M., B.Sc. Lond. Asst.

Lyth, R., M.Sc., Dip. Bact. Asst.

Children, Diseases of

Lapage, C. P., M.D., F.R.C.P. Reader.

Ward, J. F., M.D., F.R.C.P. Lectr.

Clin. Lecturers

Ashby, H. T., B.A., M.D. Camb., F.R.C.P.

Chisholm, Catherine, C.B.E., B.A., M.D.

Clin. Demonstrators

Fisher, T. N., M.B., Ch.B., D.P.H., M.R.C.P.

Guthrie, Sylvia K., M.D., M.R.C.P.

Clinical Investigations

Wilkinson, J. F., M.Sc., M.D., Ph.D., F.R.C.P., F.I.C. Dir. of Lab.

Israëls, M. C. G., M.Sc., M.D. Hon. Asst. Dir.

Rowlands, E. N., B.Sc., M.D. Asst. Dir.

Abelson, S. G., M.B., Ch.B. Chief Med. Asst.

Kench, J. E., M.Sc., Ph.D. Brist. Chem. Pathologist.

Dermatology

Clin. Lecturers

Savatard, L., L.S.A.

Gibson, R., M.D. Edin.

Mumford, P. B., M.D., F.R.C.P.

Ear, Throat and Nose, Diseases of the

Lambert, V. F., Ch.M., F.R.C.S.Ed. (Ear) Lectr.

Wrigley, F. G., M.D. (Throat and Nose) Lectr.

Forensic Medicine

Hodgson, S., M.D. Lond., M.R.C.S., L.R.C.P. Lectr.

Hygiene, v. *infra* Bacteriol. and Prev. Med.

Infectious Diseases

Sutherland, D. S., M.D. Glas. Clin. Lectr.

Yule, J., M.D. Glas., D.P.H. Edin. and Glas. Clin. Lectr.

Medical Ethics and Conditions of Med. Practice

Kilroe, L., M.D. Lectr.

Medicine

Tylecote, F. E., M.D., D.P.H., F.R.C.P. Prof.

Langley, G. J., M.B.E., M.D. Lond., F.R.C.P. (Gen. Therap.) Reader.

Lecturers

Wilkinson, J. F., M.Sc., M.D., Ph.D., F.R.C.P., F.I.C. (Syst. Med.)

Cowan, J., M.B., Ch.B. (Physio-Therap.)

Oliver, T. H., M.D., F.R.C.P. (also in Syst. Med.).

Bramwell, J. C., M.A. Camb., M.D., F.R.C.P.

Ferguson, F. R., M.D., D.P.H., F.R.C.P. (also in Neurol.).

Holmes, A. H., M.D., F.R.C.P.

Kletz, N., M.B., Ch.B., M.R.C.P.

Brockbank, W., M.A., M.D. Camb , M.R.C.P.

Mental Diseases

Cormac, H. D., M.B., M.S. Madr., D.P.M. Lectr.

Gifford, J., B.A. Cape, M.B., Ch.B. Edin., D.P.M. Lond. Lectr.

Crowe, P. M., M.B., Ch.B., D.P.M. Eng. Asst. Lectr.

Hull, E. R., M.B., Ch.B., B.A.O. Belf., D.P.M. Ireland Sp. Lectr.

Neurology, v. Med.

Neurology, Experimental

Stopford, J. S. B., Sc.D. Dub., D.Sc. Leeds, M.D., F.R.S. Prof.

Obstetrics and Gynæcology

Dougal, D., M.C., M.D., F.C.O.G. Prof.

Bailey, K. V., M.C., M.D., M.R.C.P., F.C.O.G. Lectr.

Gerrard, E. A., M.D., M.R.C.S., L.R.C.P., M.C.O.G. Asst. Lectr.

Newton, R., M.D., M.C.O.G. Demr.

Obstetrics and Gynæcol., Clin.

Shaw, W. F., M.D., M.R.C.P., F.C.O.G. Prof.

Lacey, F. H., M.D., F.C.O.G. Lectr.

Bride, J. W., M.D. Lond. and Manc., F.C.O.G. Lectr.

Brentnall, C. P., M.C., M.B., Ch.B. Liv., F.C.O.G. Lectr.

Addis, W. R., M.C., M.B., Ch.B. Edin., F.C.O.G. Lectr.

Newton, R., M.D., M.C.O.G. Asst. Lectr.

Ophthalmology

Clin. Lecturers

McNabb, H. H., M.D.

Wharton, J., M.A., M.D. Camb.

Bride, T. M., M.D.

Orthopædics

Hon. Clin. Lecturers

Ollerenshaw, R., M.D., F.R.C.S.

Platt, H., M.S. Lond., M.D., F.R.C.S.

Pathology and Path. Anat., v. also Dermatol. and Surgical Path.

Baker, S. L., M.R.C.S., L.R.C.P., Ph.D., D.P.H. Lond., M.Sc. Procter Prof.

Susman, W., B.A., M.D. W. Ont. (Morbid Anat. and Histol.) Lectr.

Whitehead, R., M.Sc., M.D. Lectr.

Varley, H., M.Sc. (Chem. Path.) Asst. Lectr.

Davson, J., M.B., B.S. Lond. Asst. Lectr.

Dalton, H. W., B.A., M.B., B.Ch., D.P.H. Dub. Demr.

Butterworth, E. C., M.Sc. (Chem. Path.) Demr.

Pharmacology, Mat. Med., Therapeutics and Pharmacy

Macdonald, A. D., M.A., M.B., Ch.B. Edin. Leech Prof.

Brindle, H., B.Sc. Lond., F.I.C., Ph.C. (Pharmacy) Sr. Lectr.

Roberts, Ivy, M.Sc., Ph.C. (Pharmaceutics) Lectr.

Bedford, T. H. B., M.Sc., M.B., Ch.B. Leeds, M.R.C.P. (Pharmacol.) Lectr.

Bullock, K., M.Sc., Ph.D., Ph.C., F.I.C. (Pharmacy) Lectr.

Rowson, J. M., M.Sc., Ph.C. Asst. Lectr.

Demonstrators

Jackson, Jacob, B.Sc. Lond.

Waterhouse, C. E., Ph.C.

Cannell, J. S., B.Sc., Ph.C.
Pedley, E., B.Sc., Ph.C.
Woolfe, G., B.Sc., Ph.C.

Radiology

Twining, E.W., M.R.C.S., L.R.C.P., D.M.R.E. Camb. Lectr.

Surgery [Prof.

Morley, J., M.B., Ch.M., F.R.C.S.

Lecturers

Rayner, H. H., M.B., Ch.B., F.R.C.S.
Hey, W. H., M.B., Ch.B., F.R.C.S.
Buckley, J. P., M.A., M.D. Camb., M.S. Lond., F.R.C.S.
Douglas, W. R., M.C., M.B., Ch.B., F.R.C.S.
Southam, A. H., M.A., M.D., M.Ch. Ox., F.R.C.S.
Sutherland, D.M'K., M.D., F.R.C.S.
Graham-Bryce, A., M.D., D.P.H., F.R.C.S.
Newell, R. L., M.D., F.R.C.S.
Bentley, F. H., B.Sc., M.B., Ch.B., F.R.C.S.
Asst. Dir. Surg. Res. Lab.

Surgery, Operative

Lecturers

Hughes, E. E., M.B., Ch.M., F.R.C.S.
Newell, R. L. (also *Surg.*).

Surgery, Regional

Newell, R. L. (also *Surg.*) Lectr.

Surgical Pathology

Lecturers

Buckley, J. P. (also *Surg.*).
Clarke, H. O., M.B., B.Ch., B.A.O. Dub., F.R.C.S.
Southam, A. H. (also *Surg.*).

Tuberculosis

Sutherland, D. P., M.B., B.S. Lond. Hon. Clin. Lectr.

Vaccination

Chisholm, Catherine, C.B.E., B.A., M.D. Lectr.

Venereal Diseases

Clin. Instructors

Reid, W. J. S., M.A., M.D. Aberd., M.R.C.P.
Whitehead, G., M.B., Ch.B.
Byrd, Eliz. C., M.Sc., M.B., Ch.B.
Addis, W. R., M.C., M.B., Ch.B. Edin., F.C.O.G.
Burke, E. T., D.S.O., M.B., Ch.B. Glas.
Mumford, P. B., M.D., F.R.C.P.
Marinkovitch, R., M.D. Leeds.

Bacteriology and Preventive Medicine

(v. also Pathol.)

Maitland, H. B., M.D. Tor., M.Sc., M.R.C.S., L.R.C.P.
Prof. and Director of Dept.
Fairbrother, R. W., D.Sc, M.D., M.R.C.P. Sp. Lectr.

Lecturers

Kerrin, J. C., Ph.D., M.D., D.P.H. Aberd.
Cowan, S. T., M.D., Dip. Bact.
Heap, H., M.Sc. (San. and Bact. Chem.).
Holroyd, J., F.R.C.V.S., D.V.S.M. (Vet. Law and Admin.).
Woods, W., M.Sc., F.R.C.V.S. (Vet. Hyg.) Hon. Lectr.
Clegg, H. W., M.B., Ch.B., D.P.H. Asst. Lectr.
Brundret, J. C., M.B., Ch.B., D.P.H., M.R.C.S., L.R.C.P. Asst. Lectr.
Evans, D. G., M.Sc., Ph.D. (Chem.) Asst. Lectr.

Factory Hygiene

Lane, R. E., M.B., B.S. Lond., M.R.C.S., M.R.C.P. Lectr.

Public Health Administration

Walker, E. H., M.B., Ch.B., D.P.H. Lectr.
Hall, F., M.D., D.P.H. Lectr.

Sanitary Engineering

Johnson, A. (v. also Archit.) Lectr.

Dentistry

Wilkinson, F. C., M.D., B.D.S. Liv., D.D.Sc. Melb., M.Sc. (D. Surg.)
Director of Dental Hosp. and Prof.

Watkin, H. G., L.D.S. Liv. (Orthodontics) Sr. Clin. Lectr.

Houghton, E., L.D.S. Eng. (D. Surg.) Sr. Clin. Lectr.

Lecturers

Matthews, E., M.Sc., Ph.D. Lond., L.D.S. Eng. (D. Prosthetics).
Director, Prosthetics Dept.

Houghton, E., L.D.S. Eng. (Op. D. Surg.).

Newell, R. L., M.D., F R.C.S. (Regional S.).

Thompson, Prof. F. C., B.Sc. Lond., D.Met. Sheff., M.Sc. (D. Metall.).

Rawsthorne, F., L.D.S. Eng. (D. Mat. Med.).

Maitland, Prof. H. B. (D. Bact.).

Baker, Prof. S. L. (D. Path.).

Don, C. S. D., M.D. Aberd., M.R.C.P. (Med.).

Holt, J. K., L.D.S. (Op. Technique).

Clin. Lecturers

Bennison, H., L.D.S. Eng. (D. Surg.).

Cocker, R., L.D.S. (D. Surg.).

Lewis, P. R., B.D.S., L.D.S. (D. Surg.).

Parsonage, F. H., L.D.S. Eng. (D. Surg.).

Wilson, S. L., L.D.S. Irel. (Oral Surg.).

Ashworth, H. K., M.B., Ch.B., M.R.C.S., L.R.C.P., D.A. (Anæsthesia).

Jones, A. J., L.D.S. Eng. (D. Radiol.).

Ashcroft, G., L.D.S. (Oral Surg.).

Asst. Clin. Lecturers

Atkinson, H. F., L.D.S. (D. Prosthetics).

Headridge, W., L.D.S. Eng. (Orthodontics).

Asst. Lecturers

Monks, F. T., L.D.S. (D. Anat. and Physiol. and D. Histol.).

Broadbent, B. T., L.D.S. (D. Surg.)

Demonstrators

..... (Op. Technique).

Thompson, E. H., L.D.S. (D. Prosth.)

Dearden, R. H., L.D.S. (Oral Surg.).

The Dental Hospital, which now forms part of the Univ., has in addition the following staff :

28 Consulting and Honorary Surgeons, 5 Anæsthetists, 5 House Surgeons, 2 Instructors.

Theology

Biblical Criticism and Exegesis

Manson, Rev. T. W., M.A. Camb., D.Litt., D.D. Glas. and Durh. Rylands Prof.

Wardle, Rev. W. L., M.A. Camb., D.D. Dub. (Old Test.) Reader.

Cheetham, Rev. Canon F. P., M.A. Camb. (New Test.) Lectr.

Findlay, Rev. J. A., M.A. Camb., D.D. St. And. (New Test.) Lectr.

Christian Ethics

Emmet, Dorothy M., M.A. Ox. Lectr.

Comparative Religion

Murphy, Rev. J., M.A. Glas. and Manc., D.D., D.Litt. Glas. Prof.

Early Church History

Grieve, Rev. A. J., M.A. Ox., D.D. Lond. Lectr.

Ecclesiastical History

Hussey, Joan M., M.A., B.Litt. Ox., Ph.D. Asst. Lectr.

Hellenistic Greek
McLachlan, Rev. H., M.A., D.D. Lectr.

History of Doctrine
Townsend, Rev. H., M.A. N.U.I., D.D. Lond. Lectr.
Brewis, Rev. J. T., B.A., B.D. Lectr.
Hassall, Rev. H., B.A. Lectr.
Wright, Rev. C. J., B.D., Ph.D. Lond. Lectr.

Philosophy of Religion
Emmet, Dorothy M., M.A. Ox. Lectr.

Psychology of Religion
Lee, A., M.A. Camb. Lectr.

Semitic Languages
Robertson, E., M.A., D.D., D.Litt. St. And., M.A. Prof.
Fish, Rev. T., Ph.D. Camb. (Oriental Hist.) Sp. Lectr.
Rosenthal, E. I. J., Dr.Phil. Berlin Sp. Lectr.
Allam, M. M. (Arabic) Sp. Lectr.
Black, Rev. M., M.A., B.D. Glas., Ph.D. Bonn Asst. Lectr.

Technology

Myers, J. E., O.B.E., D.Sc., A.I.C., Principal of the College of Tech. and Dean of the Faculty

Building Construction
McKay, W. B., M.Sc.Tech., M.R.S.I., M.I.Struct.E. Lectr.
Wilson, A. V., M.Sc.Tech., M.I.Struct.E. Lectr.
Reid, D. A. G., B Sc. (Eng.) Glas. Lectr.

Asst. Lecturers
Bowles, R. E., B.Sc.Tech., M.I.Struct.E.
Clayton, T. H., A.R.I.B A.

Chemistry, Applied
Kenner, J., D.Sc. Lond., Ph.D. Heid., F.R.S. (Tech. C.) Prof.

Lecturers
Wood, J. K., D.Sc., F.I.C. (Phys. C.).
McCulloch, A., M.Sc.Tech., A.I.C. (Fuels).
Walker, T. K., D.Sc., Ph.D., F.I.C.
Howell, O. R., B.Sc. Wales, Ph.D. Camb., Wales, and Zür., D.Sc., F.I.C.
Bradley, W., M.Sc., Ph.D. (Tinc. C. and Dyestuffs).
Handford, C., M.Met. Shef. (Metall. and Assaying).
Neale, S. M., M.Sc. Liv., D.Sc. (Cellulose C.).
Baddeley, G., M.Sc., Ph.D. Sheff. (Org. C.).
Cowen, W., M.Sc. (Chem. Eng.).
Cardwell, D., M.Sc., B.Com., F.I.C. Sp. Lectr.

Asst. Lecturers
Chadwick, Marion, M.Sc.Tech. (Foodstuffs).
Craven, May B., M.Sc.Tech., A.I.C.
Hancock, A., M.Sc.Tech., F.I.C.
Fowler, E. A., B.Sc. Glas. (Metall. and Assaying).
Bloomer, V., M.Sc., A.I.C. (Electro-C.).
Ward, A. F. H., B.Sc.Lond., M.A., Ph.D. Camb. (Phys. C.).
Garwood, R. F., B.Sc. Lond., A.I.C. (Org. C.)
Mounfield, J. D., M.Sc.Tech., Ph.D., A.I.C. (Foodstuffs).

Demonstrators
Wainwright, W. G., B.Sc. Wales.
Leicester, J., M.Sc. Sheff.
Storrow, J. A., B.Sc.Tech.

Chemistry, Textile
Scholefield, F., B.Sc. Lond. and Leeds, M.Sc. Manc., F.I C., F.T.I. (Bleaching, Dyeing, and Printing). Lectr.
Bailey, F. W., A.I.C. (Paper-making). Lectr.
Preston, J. M., B.Sc. Liv., A.I.C. Lectr.
Hibbert, Eva, M.Sc.Tech. (Applied C.) Asst. Lectr.
Turner, H. A., M.Sc. Sheff., A.I.C. Asst. Lectr.

Engineering, Electrical

Hollingworth, J., M.A. Camb., D.Sc. Lond., M.Sc.Tech., M.I.E.E. Prof.
Langton, J. L., M.Sc., M.I.E.E. (High Voltage Eng.) Lectr.
Moore, A. E., M.Sc.Tech., M.I.E.E. (Meter Eng. and Elec. Measurements.) Lectr.
Clayton, A. E., D.Sc. (Eng.) Lond., M.I.E.E. (Elec. Mach. and Design.) Lectr.
Stamford, N. C., M.Sc.Tech. (Elec. Communication Eng.) Lectr.

Asst. Lecturers

Glynne, A., M.A. Camb.
Barratt, N. M., M.Sc.Tech.
Platt, G. H., M.Sc Tech.
Pereira-Mendoza, V. M., B.Sc. Tech. Demr.

Engineering, Mechanical

Smith, Dempster, M.B.E., M.Sc. Tech., M.I.Mech.E. Prof.

Lecturers

Boswall, R. O., D.Sc. (Eng.) Lond., M.Sc.Tech., M.I.Mech.E.
Ferguson, R. M., M.Sc., M.I.Mech.E.
Bevan, T., M.Sc.Tech.
Lamble, J. H., M.Eng., Ph.D. Liv.
Brierley, J. C., M.Sc.Tech.

Asst. Lecturers

Whittaker, J. R., M.Sc.Tech., Ph.D.
Marsh, W., B.Sc.Durh., M.Sc. Tech.
Old, C. L., B.Sc. (Eng.) Lond.
Morris, R. A., M.Eng. Sheff.
Hampson, H., B.Sc.Tech.
Bride, W. L., B.Sc. Durh.

Engineering, Municipal

Lecturers

Cornish, R. J., M.Sc., M.R.S.I.
Johnson, A., M.Sc. Durh., F.R.S.I.

Asst. Lecturers

King, W. H., B.Sc. Durh., M.R.S.I.
Morgan, Elwyn Ll., B.Sc. Wales.

Industrial Administration

Fenelon, K. G., M.A., Ph.D. Edin. Lectr.
Garden, D. J., M.A., B.Com. Aberd., Ph.D. Lectr.
Yates, M. L., M.A. (Com.), M.Sc.Tech. Lectr.

Languages, Modern

Eaton, R. S., M.A. Asst. Lectr.
Jackson, H. S., B.A. Asst. Lectr.

Mathematics

Bowman, F., M.A. Camb., M.Sc. Tech. Lectr.
Hunter, W., M.A. Camb., B.Sc. Lond. Lectr.
Verblunsky, S., B.A., Ph.D. Camb., M Sc Lond. Lectr.

Asst. Lecturers

Tilsley, H., B.Sc. (Eng.) Lond.
Hawkes, J. H., M.Sc.
Howarth, A., M.Sc.

Mining

Williams, N. T., B.Sc. Wales, M.I.M.E. Lectr.

Physics

Taylor, W. H., D.Sc., Ph.D. Lectr.
Walmsley, H. P., D.Sc., F.I.P. Lectr.
Anderson, W., B.Sc. Glas. Asst. Lectr.
Smare, D. L., B.Sc., M.Sc.Tech. Asst. Lectr.
Edmunds, J. G., M.Sc., Ph.D. Wales Asst. Lectr.

Textile Industries [Prof.

Morton, W. E., M.Sc.Tech., F.T.I.

Lecturers

Hanton, W. A., M.Sc.Tech. (Weaving and Textile Engin.).
Chirnside, J. (Textile Design).
Spibey, H., M.Sc.Tech. (Spinning).
Essam, J. M., M.Sc.Tech., F.T.I. (Weaving).

Sp. Lecturers

Bowden, K. W., B.Com. (Yarn and Cloth Markets).
Bell, H. S., F.T.I. (Hosiery Manuf.).

Asst. Lecturers

Bennett, G. A., M.A. (Com.), M.Sc.Tech., F.T.I. (Weaving).
Riley, A., B.Sc., M.A. (Com.), M.Sc.Tech. (Textile Engin.).

Ludwig Mond Lecturers

1938–39 : Gertrude Caton-Thompson ; E. V. Appleton, M.A., D.Sc., LL.D., F.R.S., H. B. Butler, C.B., B.A. Ox.

Adamson Lecturer

1938–39 : Sir D'Arcy Thompson, C.B., D.Litt., D.Sc., LL.D., F.R.S., P.R.S.E.

Extra-Mural Department

Director of Extra-mural Studies—R. D. Waller, M.A.
Staff Tutor—.....
Resident Tutor—G. A. Cheshire, B.A. Lond.

ASSOCIATED COLLEGES

THE COLLEGE OF TECHNOLOGY became connected with the Univ. of Manchester in 1905 in the Fac. of Techn., the greater part of the work of which is conducted in the College, whose Principal is Dean. The work of the College includes advanced study and research in the subjects specified above and hydraulic experimental work, motor-car engineering, and india-rubber technology. From Oct. 1934 recognized for B.Sc. (Eng.) degree for external students, London Univ.

Recognized for External Lectures in Theology: BAPTIST COLLEGE, EGERTON HALL, HARTLEY VICTORIA METHODIST COLLEGE, MORAVIAN COLLEGE, Fairfield, and UNITARIAN COLLEGE at Manchester; LANCASHIRE INDEPENDENT COLLEGE, Whalley Range; METHODIST COLLEGE, Didsbury.

Recognized for instruction in Maths., Physics, Chem., and Biol. up to Interm. standard for B.Sc. and B.Sc.Tech.: the HARRIS INSTITUTE, Preston.

For third year of B.Sc. Tech. course in Metal Mining: the CAMBORNE SCHOOL OF METALLIFEROUS MINING.

GENERAL INFORMATION

The Victoria University of Manchester was reconstituted by Royal Charter in 1903 and Owens Coll. incorporated with it by Act of Parl. in 1904. For early history, see *Yearbook* for 1929.

Most of the buildings, arranged in two quadrangles, and erected from time to time during the past 50 years, are situated in the city. The Departments of Bacteriology and Preventive Medicine and Pathology are ½ mile distant, adjoining principal hospitals. The athletic ground (30 acres) is at Fallowfield, about 1½ miles distant, while a further 41 acres were acquired for athletic purposes at Wythenshawe, about 3 miles distant.

LIBRARIES. The main library (over 300,000 vols.) is housed in two divisions. The books concerning the Arts and allied faculties are placed in the new building (completed in 1936). The books on scientific subjects remain in the old (Christie) building, which also contains the Library of the Manchester Museum. The library includes the private collections of Profs. Freeman and Stanley Jevons and Dr. Christie. Scientific periodicals are taken in by the Univ. in co-operation with the Manchester Literary and Philosophical Society, so that between them all the most important are available for both. The Medical Society's and the Radford Library (80,000 vols.) are housed in the Med. School, and available for students. The Library for Deaf Education (over 7000 vols.) is available to all interested in the educn. of the deaf. There is

also in the city of Manchester the John Rylands (350,000 vols.), which includes the Althorp Library and the Crawford collection of MSS. It contains one of the most important collections of early printed books in existence. The ancient Chetham Library (100,000 vols.) has valuable mediæval MSS. and printed books of 17th and 18th centuries and a collection of vols. dealing with local history. The Municipal Reference Library (287,000 vols.) is valuable for more recent books and periodicals, and in connexion with it there is a Technical and Science Library (45,000 vols.). The College of Technology Library (20,000 vols.) includes the abridgements of specifications of patents from 1855 to date, and is devoted to applied science and technology.

LABORATORIES, ETC. Ample equipment for advanced study and research in all departments; special provision for Electro-Technics, Economic Zoology (including Agric. Entom.) and Botany (including Horticulture), Radio-activity, Ionization of Gases, Colloids, and Cancer. *Pathological Museum* (Hon. Curator —Emer. Prof. E. D. Telford, M.A., B.Ch. Camb., M.Sc., F.R.C.S.). The *Manchester Museum* (Keeper—R. U. Sayce, M.A.), forming part of the Univ. buildings, and containing among other special depts. the Flinders Petrie Egyptol. Collection, is utilized for Univ. teaching in Zool., Bot., and Geol.; it is also used for systematic instruction of Elem. school children. Available for clinical instruction are 4 general Hospitals, 1 Dental and 9 other special hospls., including the Christie Hospital (Cancer), and Holt Radium Institute.

FACULTIES. (1) Arts [including School of Architecture]; (2) Science; (3) Law; (4) Medicine [including Departments of Dental Science, Pharmaceutics, and Bacteriology and Preventive Medicine and Pub. Health]; (5) Music; (6) Commerce and Administration [including Social Study]; (7) Theology; (8) Technology (provided by the Municipal College of Technology); (9) Education [training for work in Secondary, Elementary, and Day Continuation Schools, in Schools for the Deaf, and with Young Children.] *Deans of Faculties*: (1) Prof. H. J. Fleure (Geog.); (2) Prof. D. R. Hartree (Theor. Phys.); (3) Prof. R. A. Eastwood (Law); (4) Prof. A. D. Macdonald (Pharmacol.); (5) Prof. E. F. Jacob (Music); (6) Prof. J. Jewkes (Social Econ.); (7) Rev. W. L. Wardle (Old Test.); (8) Principal J. E. Myers (Technol.); (9) Prof. R. A. C. Oliver (Educ.). *Tutors*: (1) J. Marks (French); (2) G. N. Burkhardt (Chem.); (3) F. R. Crane (Art. Clerks); (4) W. Schlapp (Physiol.); (5) Frances Collier (Econ. and Comm.).

WOMEN STUDENTS. Adviser—Phyllis E. Crump, M.A.

ADMISSION. *See* Appendix I.

INDIAN STUDENTS. Adviser, J. K. Wood, D.Sc. Applications from Indian students for registration should be received, with references as to character and educational qualifications, not later than May 31.

DEGREE COURSES. 3 yrs. (graduates of other approved Univs., 2 yrs.)—B.A., B.Sc., LL.B., Mus.B., B.A. (Com.), B.A. (Admin.), B.D. (after Interm. courses in Arts), B.Sc.Tech.; 5 yrs.—B.A. (Hons. in Archit.), B.D.S.; 6 yrs.—M.B., Ch.B. The B.A. (Com.) and B.A. (Admin.) courses can be completed by attendance on evening lectures.

The B.Sc. degree may be awarded with Honours in General Science (v. p. 7).

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign Univ. as equivalent to attendance at Manc.

Minimum attendance in the Univ. for graduation—3 yrs. Minimum attendance for Bachelorship in 2 Faculties—5 yrs.

HIGHER DEGREES. Open to Bachelors of 1 yr. standing—M.A., M.Sc. (2 yrs. if graduates of other Faculties), Ch.M., M.D., M.D.S., M.A. (Com.), M.A.

(Admin.), M.Sc. Tech.; 2 yrs.—LL.M., M.Ed., D.D.S.; 4 yrs.—D.Sc., LL.D., Mus.D., D.D. Open to Masters or Doctors of Philosophy of the Univ. only: Litt.D.

Open to graduates of other approved Univs. through research in Manc. during 2 (non-graduates 3) yrs.—M.A., M.Sc., LL.M., M.A. (Com.), M.A. (Admin.), M.Sc.Tech., M.Ed. (open only to graduates). Graduates of other approved Univs. of 4 yrs.' (D.D. 6 yrs.') standing who have obtained the degree of Master or one substantially equivalent thereto and spent 2 yrs. in study or research in Manc. may qualify for the D.Sc., LL.D., D.D.

The Ph.D. differs from the Litt.D. and D.Sc. in requiring a definite course of study, and is of a lower standard, though higher than the M.A., M.Sc., and M.Sc. Tech. (*v.* p. 13).

DIPLOMAS. Geog. (grads.), 1 yr. course; Psych. Med. (reg. qual.), 1 yr., including 2 terms at the Univ.; D.P.H. (reg. qual.), 1 yr. Teacher's (grads.), 1 yr.; Archit., 5 yrs. Town and Country Planning (1 yr. after Certif. status); L.D.S., 4 yrs.; Dp. Bact. (1 yr. postgrad.); Social Study (2 yrs.; approved grads. and holders of Certif. in Pub. Admin., 1 yr.); Chem. Engin. (1 yr. postgrad.).

CERTIFICATES. Engin., 3 yrs.; Applied Chem., 3 yrs.; Mining, 3 yrs.; Higher Commercial, 2 yrs. (grads. 1 yr.); Public Administration, 2 yrs.; Social Administration, 2 yrs.; Theol., 3 yrs.; Biblical Knowledge, 1 yr.; Tech. (Assoc. Coll. Tech.), 3 yrs.; Tech. (Distinction), 1 yr. after Cert. in Tech.; Indust. Admin., 1 yr. (grads. or holders of Cert. in Tech.); Certif. for Teachers of the Deaf, 1 yr. (grads. and certificated teachers); Town and Country Planning, 2 yrs. Candidates for certificates are required, before entering on the course, to pass or obtain exemption from an entrance examn.

Certif. in Mining and the B.Sc.Tech. in Mining are accepted by Govt. in lieu of 2 out of 5 yrs.' practical experience for Mine Manager's Certif.

SCHOLARSHIPS, ETC., FOR GRADUATES. A considerable number are offered every year by the Univ., most of them reserved for its own graduates, but some—in Anatomy, £150; Econ., £100 and £120; Engin., £200; Bot. or Zool., £200; Diseases of Children, £100; History, £50; Local Govt., £50; Internat. Relations, £100; Maths., £70; Physics, £200; Physiol., £90; Cancer Research, £300; Prev. Med., £300; Mun. Engin. or Bact. and Prev. Med., £150; Psychological Med., £150—are open to foreign students; others—in Cotton Industry, £100; History, £50; Agric. Zool., £120—are open to British subjects who have graduated at other Univs. Honorary Research Fellowships and Research Studentships, entitling the holders to the use of facilities for research either free or at greatly reduced fees, are also awarded. *See also* App. II. passim.

FEES. Tuition, per session, including Students' Union and Athletic Union fees: for B.A. course, 30½ gs. (Hons. in Archit., first 3 yrs. 35 gs. per session, 4th and 5th yrs. 22½ gs. per session); B.Sc., 30½ to 45½ gs.; M.B., Ch.B. (5 sessions), 154½ gs., *plus* Hospl. fees, 89 gs.; LL.B. (3 sessions), 40 gs.; B.D., about 15 gs. (*plus* Registration fee of 3 gs.) per session; B.A. (Com.), B.A. (Admin.), 20 gs. to 24 gs.; Mus.B., from 21 gs. to 29 gs. per session *approx.* according to options selected; B.D.S., 96 gs., *plus* Hospl. fees, 170 gs.; L.D.S., 86 gs., *plus* Hospl. fees, 155 gs.; B.Sc.Tech., *about* £40-£60; Teacher's Dipl., £35 : 10 : 6. Examn. fees: Med., 32 gs., others (Interm. and Final) for first degrees about 6 gs. (B.Sc., 4 to 5 gs.). Graduation fees, 8 gs. (Doctorate, 5 gs.).

Research fees, 7 to 10 gs. per session in Arts, Commerce and Law; Educn., 4 gs.; higher fees for science students.

HOSTELS. For men: Hulme Hall (Warden: Rev. A. H. White, M.A.), 76 to 86 gs.; Dalton Hall (Principal: G. A. Sutherland, M.A.), £108 (for 31 weeks); St. Anselm Hall (Warden: Rev. T. H. South, M.A.), 80 gs. (for 30 weeks); Lancashire Independent College (Principal: Rev. A. J. Grieve, M.A., D.D.), £81 first two sessions, subsequently £72 (full Univ. terms); Unitarian College (Principal: Rev. H. McLachlan, M.A., D.D.), £80 (full Univ. terms). For women: Ashburne Hall (Warden: Miss J. Mitchell, B.A., L.R.A.M.), 66 to 70 gs.; Langdale Hall (Warden: Miss D. M. Newcomen, M.A.), chiefly for students in training, 70 gs.; Ellis Llwyd Jones Hall (Warden: Miss H. M. A. Buckmaster, M.A.), special hostel for students in training as teachers of the deaf, £66 to £70; St. Gabriel's Hall (Warden: Miss D. C. Prosser, M.A.), for Rom. Catholic women students, 55 gs. to 65 gs.; Lister House (Warden: R. Sykes, B.Sc., M.D., M.R.C.P.), a Hall for Medical Students, both men and women, residence compulsory during a period of 3 months in one of their Clinical Years, at a charge of £2 : 7 : 6 per week.

Donner House provides accommodation for 15 members of staff and senior research students, at an inclusive charge of from £2 : 2 : 6 to £2 : 7 : 6 per week.

The UNIVERSITY UNION (men) and the WOMEN'S UNION occupy buildings on main University site, and provide social facilities for students. They adjoin the REFECTORY, the whole block having been extended and remodelled in 1937, when a STAFF HOUSE was also added.

CONVOCATION consists of all grads. since 1914 (earlier grads. admitted on payment of fee of 5s.). The duties and privileges of Convocn. include the election of the Chancellor of the Univ. District Groups (Manchester, London, Leeds, Sheffield) of Convocn. provide social and other facilities for graduates.

All PAST AND PRESENT MEMBERS of the Univ. are eligible for membership of the "Old Owensian Assocn.," which publishes periodically a register of members with occupations and addresses and a *Journal* (thrice yearly).

ADULT EDUCATION. The Committee for the organization of the Extra-mural work of the Univ. and the Joint Committee for Tutorial Classes are responsible for the provision of facilities for Adult Education at the Univ. itself and at other Centres. Public Lectures, Univ. Extension Courses, Tutorial Classes for Workpeople, and other Classes for adult students are arranged, and Tutors and Lecturers are appointed.

APPOINTMENTS BOARD. Secretary, Olive B. Schill, M.A. Camb., The University, Manchester, 13.

PUBLICATIONS. (1) Periodical: (*a*) *Calendar* (Sept.), 5s. and 3s.; *Examination Papers*, 9d.-1s. 3d. a set, by Faculties; *The Journal of the University* (Annual); *Manchester School*, March and Oct. (Economic and Commercial), 5s. p.a.; Departmental Prospectuses (April-May). (*b*) Also published by University Press: *Journal of Manc. Egyptian and Oriental Soc.*; Pubns. of Chetham Society, Manchester; Pubns. of Brit. Soc. of Franciscan Studies; Bulletin of John Rylands Library. (*c*) Students' Pubns.: *The Serpent* (Magazine), *The Circle* (Literary), *Science Fed. Journal*, *Medical School Gazette*. (2) *The Victoria University of Manchester*; a short historical and descriptive account, The Univ. Press, 1930.

Histories: "The Owens College: its Foundation and Growth, and Connexion with the Victoria Univ.," by Joseph Thompson. Manchester, J. E. Cornish, 1886. "The Owens College," by P. J. Hartog. Manchester, J. E. Cornish, 1900. "Chapters in the History of Owens College and of Manchester University, 1851–1914," by E. Fiddes. Manchester, Univ. Press, 1937.

THE YEAR 1937–38

BENEFACTIONS. Public Appeal (March 1937) has reached (Oct. 1938) total of over £210,000 in addition to gift of new Dental School and Clinic. Other gifts: Sir Robt. McDougall, £300 for further accessories to Differential Analyser, £200 to Bursary Fund; Currie Memorial Fund, £150 for prize in mycology in memory of Sir James Currie; Subscribers to Mary Hope Hogg Memorial, about £1000 to provide assistance for women students training for certain careers. Substantial bequests (amount not yet ascertained), under Wills of John Edward Holt and his widow, for endowment of Medical Scholarships. *Grants*: Annual grants increased: County Borough of Rochdale, from £250 to £500; City of Salford, from £300 to £500; County Borough of Stockport, from £400 to £500; County Borough of Burnley, from £250 to £300; County Borough of Warrington, from £100 to £200. In addition to annual grants, the City of Manchester has contributed £10,000 to the Appeal Fund, and the County Borough of Preston, £100 to the local appeal fund. Other grants: Dental Board of U.K., £5000 toward cost of new Dental School and Hosp., and renewal of grant of £500 p.a., until 1940, towards stipend of Professor of D. Surg.; Rockefeller Foundation, $5000 for Fac. of Comm. and Admin.; Natl. Inst. of Econ. Research, £300 for study of Co-ordination of Pub. Utility Services in S.E. Lancs., and £200 p.a. for two years for work on National Income; British Road Federation, £250 for publication of research on Goods Transport and operation of Road and Rail Traffic Act, 1933; Inst. of Pub. Admin., £140 towards cost of investign. of differential rents in municipal housing schemes; Empire Cotton Growing Corpn., grant of £1000 p.a. renewed for further five years; Manchester Law Soc., £1000 towards cost of Legal Educn.; Leverhulme Trustees, £500 p.a. for 3 years for research work on Hearing Aids; Boots Pure Drug Co., Ltd., £400 p.a. for three years to Dept. of Clin. Investigns.

NEW BUILDINGS. Construction of new Dental Hosp. and School begun. Plans for new Dept. of Phys. Chem. and for Physical Educn. Centre and O.T.C. Hdqrs. nearing completion.

CHANGES IN REGULATIONS. Institution of degree of Doctor of Dental Surg. and of Certificate in Social Administration. Courses in Town and Country Planning revised and permanently adopted. Matric. requirements (entrance) revised from Dec. 1937. Discontinuance of D.V.S.M.

EXTRA-MURAL WORK. 63 Tutorial Classes, 23 Preparatory Classes, and one Advanced Class in 41 different towns and villages. 15 Extension Courses at Univ. and outside centres in addition to 46 single lectures and two Extension Courses given for public and in Secondary Schools of Lancs. and Ches. county authorities. 172 students and 24 tutors attended Summer School at Bangor in July and August.

VISIT OF TEACHERS FROM OTHER UNIVERSITIES AND OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. Janelle (Clermont-Ferrand) lectured during three-day visit. Prof. Heisenberg (Leipzig) lectured in Physics Dept. during summer term. Prof. Charlton (Eng. Lit.) lectured in Univs. of Holland and at three Univs. in France during Lent Term. Professor Gordon (Eng. Lang.) lectured in Univs. of Berlin, Bonn, and Münster during summer term. Other Visitors included: Dr. Artur Schnabel, who gave a Pianoforte Recital in Dec. 1937. The British Chambers of Commerce (annual meetings), Oct. 1937. The Chemical Society, who held their anniversary meetings in the Univ., April 1938.

The Brit. Federn. of Univ. Women, who held their conference in the Univ., June 1938. The Law Society (annual meetings), Sept. 1938.

PUBLIC LECTURES GIVEN AT THE UNIVERSITY. Prof. O. T. Jones, "Exploration of the Earth's Crust." Lady Simon, "Education in Manchester and Moscow." Mr. A. M. Henderson, "Old English Keyboard Music." Rev. F. E. Hutchinson, "A. E. Houseman—The Poet of *A Shropshire Lad*." Dr. H. Lowery, "Some Psychological Aspects of Music." Mr. R. H. Wilenski, "Seventeenth-Century Painting." Dr. C. H. Forsyth, "Medical and Hospital Work in the Far North." Mrs. L. K. Yapp, "Sweden's Contribution towards a European Settlement." Mr. Anthony Bertram, "The Shape of Things." Mr. Mahdi Allam, "The Theory of Forgiveness as expressed in the Koran." Sir William Graham-Harrison, "Clues to the understanding of the Statute Book." Prof. D. Atkinson, "Roman Silver-Plate." Prof. Gustave Cohen, "Le Théâtre Français au Moyen Âge."

Ludwig Mond Lectures. Prof. R. G. Stapledon, C.B.E., M.A., "The Nation and its Land Surface." Prof. R. M. Henry, M.A., Litt.D., "Virgil and the Roman Epic."

Warburton Lectures. Mr. G. L. Pepler, F.S.I., "Town and Country Planning" and "Planning for Homes."

DEATHS. Dr. S. Alexander (Prof. of Philosophy, 1893 to 1924, Presenter of Hon. Graduands, 1926–1930, Hon. Prof. since 1924); E. V. Gordon (Prof. of Eng. Lang. and Germanic Philol. since 1931).

RESIGNATIONS. Sir Robert McDougall, Deputy-Treasurer; Prof. I. M. Heilbron (Chem.), on appt. as Prof. of Organic Chem. at Imperial Coll. of Sc. & Tech., London; B. Mouat Jones (Principal and Dean of Fac. of Tech.), on appt. as Vice-Chancellor of Univ. of Leeds; Dr. B. Wilkinson (Hist.), on appt. as Prof. of History in Univ. of Toronto; Dr. J. E. Myers, on appt. as Principal of Mun. Coll. of Technology, Manchester; Dr. R. W. Fairbrother (Bact.), on appt. as Director of Clin. Lab. of Manchester Royal Infirmary; A. J. Allaway, on appt. as Director of Extra-mural Studies in Queen's Univ., Belfast.

RETIREMENTS. Prof. R. Beattie (Electro-Technics); H. P. Turner (Dir. of Extra-mural Studies); E. G. Gaul (Chem.); Miss Winifred Hindshaw (Educn.); H. Percival (Sub-Librarian).

HONORARY DEGREES. *LL.D.*—Sir Henry Strakosch, Joseph Crookes Grime (Lord Mayor of Manchester), Frederic Edwin Warbreck Howell (Town Clerk of Manchester), Sir Edmund Ralph Cook, Frank Augustus Padmore. *Litt.D.*—Sir John Edward Lloyd, Prof. John Orr. *D.Sc.*—Sir Henry Hallett Dale. *Mus.D.*—Egon Petri. *D.D.*—Rev. John Daniel Jones. *M.A.*—Ernest Green, Reginald Howard Wilenski.

STUDENTS. Full-time, 2365; part-time, 359. These numbers include 535 graduates who registered for courses.

DEGREES. B.D., 12; B.A., 123; M.A., 25; LL.B., 16; LL.M., 1; B.Sc., 127; M.Sc., 32; D.Sc., 6; M.B., Ch.B., 43; M.D., 8; Mus.B., 1; Mus.D., 1; B.A. (Com.), 21; M.A. (Com.), 2; B.A. (Admin.), 28; M.A. (Admin.), 2; B.Sc. Tech., 64; M.Sc. Tech., 17; M.Ed., 5; Ph.D., 18.

UNIVERSITY OF OXFORD

Founded in the XIIth Century

CHANCELLOR—Right Hon. VISCOUNT HALIFAX, K.G., G.C.S.I., G.C.I.E., D.C.L, Hon. Fellow of All Souls.

HIGH STEWARD—Rt. Hon. VISCOUNT SANKEY OF MORETON, G.B.E., M.A., D.C.L., Hon. Fellow of Jesus.

VICE-CHANCELLOR—G. S. GORDON, LL.D. Glas., Litt.D. Leeds, M.A., President of Magdalen.

PROCTORS—A. N. BRYAN-BROWN, M.A. Worc.; E. H. PHELPS BROWN, M.A. New.

REPRESENTATIVES IN PARLIAMENT.—*See* p. 18.

ASSESSOR OF THE CHANCELLOR'S COURT—A. E. W. HAZEL, K.C., M.A., B.C.L., Principal of Jesus.

PUBLIC ORATOR—C. BAILEY, M.A., D.Litt. Ball. (to 31.7.39).

BODLEY'S LIBRARIAN—H. H. E. CRASTER, M.A., D.Litt. All Souls.

KEEPER OF THE ARCHIVES—S. GIBSON, M.A. St. Cath.

REGISTRAR—D. VEALE, C.B.E., M.A. C.C.C.

SECRETARY OF FACULTIES—H. M. MARGOLIOUTH, M.A. Oriel.

ASSISTANT REGISTRAR—S. CALDWELL, M.A. Wadham.

NOTE.—The Colleges and Heads of Colleges are given on pp. 256 ff.

Telephone: Registry—Oxford 2428.

TEACHING STAFF

Agriculture, v. *infra* Rural Econ.

Anatomy, v. also Zoology, Med.

Clark, W. E. Le G., D.Sc. Lond., M.A. Hertf., F.R.C.S., F.R.S. Dr. Lee's Prof.

Odgers, P. N. Blake, M.Ch., D.M. Linc. Reader, Lectr. and Demr.

Carleton, Mrs. Alice B., M.A. O.H.S. Lectr. and Demr.

Blackwood, Beatrice M., M.A., B.Sc. Som. (Ethnol.) Lectr. and Demr.

Zuckerman, S., D.Sc. Lond., M.A. Ch. Ch. (Human A.) Lectr. and Demr.

Anglo-Saxon

Tolkien, J. R. R., M.A. Pemb. Rawlinson and Bosworth Prof

Anthropology, Physical

..... Reader.

Anthropology, Social

Radcliffe-Brown, A. R., M.A. Camb. and All S. Prof.

Eisler, R., Ph.D. Vienna Wilde Lectr. in Nat. and Comp. Relig.

Archæology, v. also Oriental Langs.

Beazley, J. D., M.A. Linc. (Classical A. and Art) Lincoln Prof.

Casson, S., M.A. New Coll. (Classical A.) Reader.
Jacobsthal, P., M.A. Ch. Ch. (Celtic A.) Reader.

Art

Hendy, P. A., M.A., Ch. Ch. (Fine Art) Slade Prof.
Rutherston, A. D., M.A. (Drawing) Ruskin Master.

Assyriology, v. Oriental Languages

Astronomy

Plaskett, H. H., M.A., New Coll. F.R.S. Savilian Prof.
Hughes, J. S., M.A. New Coll. (Seismol.) Chief Asst.
Zanstra, H., D.Phil. Minn. Radcliffe Travelling Fellow
Adam, Madge G., B.A. St. Hugh's Research Asst.
Evans, D. S., B.A. Camb. Research Asst.
Bellamy, Ethel F., M.A. (Seismol.) Asst.

Bio-Chemistry [Whitley Prof.
Peters, R. A., M.C., M.A. Trin.
Whitley, E., M.A. Trin. Demr.

Lectrs. and Demrs.
Walker, E., M.A., D.Phil. St. Joh.
Carter, C. W., M.A., B.M. Queen's
Fisher, R. B., M.A., B.Sc., D.Phil. St. Joh.

Botany, v. also Rural Econ.

Osborn, T. G. B., D.Sc. Manc., M.A. Magd. Sherardian Prof.

Lectrs. and Demrs.
Clapham, A. R., M.A. Magd.
Wilkins, W. H., M.A., D.Phil. Keb.
James, W. O., M.A., D.Phil. Oriel.
Baker, H., M.A. Cath.

Celtic

Fraser, J., M.A. Jes. Jesus Prof.

Chemistry [Waynflete Prof.
Robinson, Sir R., D.Sc. Durh. and Manc., M.A. Magd., F.R.S.
Hinshelwood, C. N., Sc.D. Dub., M.A. Exe., F.R.S. (Phys. C.) Dr. Lee's Prof.
Sidgwick, N. V., C.B.E., LL.D. Liv., M.A. Linc., F.R.S. Prof. and Reader.

Lecturers
George, H. J., M.A. Jes.
Russell, A. S., M.A. Ch. Ch.
Hume-Rothery, W., M.A., D.Sc. Magd.

Lectrs. and Demonstrators
Hope, E., M.A. Magd.
Hammick, D. L., M.A. Oriel.
Plant, S. G. P., M.A., B.Sc., D.Phil. Magd.
Taylor, T. W. J., M A. B.N.C.
Baker, W., M.A. Qu.
Smith, J. C., M.Sc. N.Z., Ph.D. Manc., M.A., B.Sc. New Coll.
Lambert, B., M.A., D.Sc. Mert. Aldrichian Prælector.
Brewer, F. M., M.A., B.Sc. Linc.
King, F. E., M.A., D.Phil. Oriel.
Thompson, H. W., M.A., B.Sc. St. Joh.
Bowen, E. J., M.A. Univ.
Wolfenden, J. H., M.A. Exe.
Bell, R. P., M.A. Ball.
Hartley, E. G. J., M.A. Ch. Ch. Demr.

Classics, v. also Archæol. and Greek and Latin Lit.

Dodds, E. R., M.A. Ch. Ch. (Greek) Reg. Prof.
Tod, M. N., M.A. Or. (Greek Epigraphy) Reader.
Fraenkel, E. D. M., Dr. phil. Göttingen, M.A. Camb. and C.C.C. (Latin) Corpus Prof.

Colonial Administration

Perham, Margery F., M.A. St. Hu. Research Lectr.

Crystallography, v. Mineralogy

Diplomatic

Cheney, C. R., M.A.Wadh. Reader.

Divinity, v. Theology

Economics, v. also Pol. Econ.

Cole, G. D. H., M.A. Univ. Reader.

Education

Jacks, M. L., M.A. Wadh. Director.
Icely, H. E. McL., M.A. B.N.C. Reader.
Talbot, Elfrida M., M.A. St. Hu. Lectr. and Tutor to Women Students, and Principal of the Women's Hostel.

Lectrs. and Tutors

Jones, L. G. E., M.A. Ball.
Tomlinson, Leila, M.A. Som.
Yeaxlee, B. A., M.A., B.Litt. St. Cath.
Williams, R. E., M.A. B.N.C.

Egyptology, v. Oriental Langs.

Embryology, v. Zool.

Engineering Science, v also Surveying

Southwell, R. V., M.A. B.N.C., F.R.S. Prof.
Moullin, E. B., M.A. Magd. Donald Pollock Reader.
Binnie, A. M., M.A. New Coll. Lectr. and Demr.
Belfield, V., M.A. Camb. and B.N.C. Lectr. and Demr.
Black, A. N., M.A. Exe. Lectr. and Demr.

English, v. also Anglo-Saxon, Poetry

Smith, D. Nichol, D.Litt. Dur., M.A. Edin. and Mert. (E. Lit.) Merton Prof.
Wyld, H. C. K., M.A., B.Litt. Mert. (E. Lang. and Lit.) Merton Prof.
..... Goldsmiths' Reader.
Onions, C. T., M.A., D.Litt. Magd. (Eng. Phil.) Reader.
Brett-Smith, H. F. B., M.A. C.C.C. (Eng. Lit.) Reader.
Wrenn, C. L., M.A. Qu. (E. Lang.) Lectr.
Lewis, C. S., M.A. Magd. (Eng. Lit.) Lectr.
Ridley, Rev. M. R., M.A. Ball. (Eng. Lit.) Lectr.
Seaton, Mary E., M.A. St. Hu. (Eng. Lit.) Lectr.

Forestry, v. also Surveying, Rural Econ.

Troup, R. S., C.M.G., C.I.E., M.A., D.Sc. St. Joh., F.R.S. Prof.

Demrs.

Chalk, L., M.A., D.Phil. Univ. (Structure, etc. of Wood).
Day, W. R., M.A., B.Sc. Exe. (Mycol. and Pathol.).
Chrystal, R. N., D.Sc. Edin., M.A. (Entomol.).
Lloyd, A. H., M.C., M.A. Exe. (F. Utilization and Engin.).

Imperial Forestry Institute

Director—Oliphant, J. N., C.M.G., M.A. Ch. Ch.

Lectrs. and Demrs.

The Demrs. above.
Troup, Prof. R. S. (Silviculture).
Burtt Davy, J., M.A., D.Phil. Univ. (Systemat. F. Bot.).
Hoyle, A. C., M.A., B.Sc. Pemb. (Syst. F. Bot.).
Brown, J. M. B., B.Sc. Belf. (F. Entomol.).
Chattaway, Mary M., M.A., B.Sc., D.Phil. St. Hugh's (Structure, etc. of Wood).
Peace, T. R., M.A. Camb. (Mycol. and Pathol.).

French Language and Lit.

Rudler, G., D. ès L. Paris, M.A. All S. (Fr. Lit.) Foch Prof.

Bisson, L. A., M.A. Pemb. (Fr. Lit.) Reader.

Lectrs.

Moore, W. G., M.A. St. Joh.
Johnston, R. C., M.A. Mert. (Philol. and Old F. Lit.).
Starkie, Enid M., M.A. Som.
Hunt, H. J., M.A., D.Phil. St. Edm. H.
Chesney, Kathleen, M.A., D.Phil. St. Hild.

Geography, v. also Surv.

Mason, K., M.A. Hert. Prof.
Baker, J. N. L., M.A., B.Litt. Jes. (Historical G.) Reader.

Lectrs.

Kendrew, W. G., M.A. Cath. (Climatol.).
Gullick, C. F. W. R., M.A., B.Litt. Qu. (Econ. G.).
Gilbert, E. W., M.A., B.Litt. Hertf. (Human G.) Research Lectr.

Geology

Douglas, J. A., M.A., D.Sc. Univ. Prof.

Lectrs. and Demrs.

Bayzand, C. J., M.A. Cath.
Sandford, K. S., M.A., D.Phil., D.Sc. Univ. (Pleistocene G.).
Harrison, J. V.

Geometry [Savilian Prof.

Titchmarsh, E. C., M.A. New Coll.

German [Taylor Prof.

Boyd, J., M.A., B.Litt. Qu. (G. Lang. and Lit.).
Bostock, J. K., Ph.D. Lond., M.A., B.Litt. Wadh. Reader.
Stahl, E. L., M.A. Cape T. and Wadh., Ph.D. Berne. Lectr.
Barnes, H. G., M.A. Magd. Lectr.

Greek, Byzantine and Modern Lang. and Lit.

Dawkins, R. MacG., M.A. Exe. (to 31.7.39) Bywater & Sotheby Prof.

Greek and Latin Lang. and Lit.

Mynors, R. A. B., M.A. Ball. Lectr.
Platnaeur, M., M.A., B.Litt. B.N.C. Lectr.

Greek and Latin Literature

Lectrs.

Barber, E. A., M.A. Exe.
Page, D. L., M.A. Ch. Ch.
Dale, Amy M., M.A. L.M.H.
Higham, T. F., M.A. Trin.
Denniston, J. D., M.A. Hertf.

Greek Literature [Lectr.

Bowra, C. M., M.A., D.Litt. Wadh.

Hebrew, v. Oriental Langs.

History, American

Wertenbaker, T. J. (Princeton), for 1 yr. to 30.9.40 H. V. Harmsworth Prof.

History, Ancient, v. also Archæol.

Last, H. M., M.A. B.N.C. Camden Prof.
Myres, J. L., M.A. New Coll. (to 31.7.39) Wykeham Prof.

Lectrs.

Syme, R., M.A. Trin.
Balsdon, J. P. V. D., M.A. Ex.
Hignett, C., M.A. Hertf.

History, Colonial [Beit Prof.

Coupland, R., M.A. All S.
Wheare, K. C., M.A. Ch. Ch. Beit Lectr.

History, Eccl., v. Theology

History, Econ., v. Pol. Econ.

History, Indian

Davies, C. C., Ph.D. Camb., M.A. Ball. Reader.

History, Mediæval

Jolliffe, J. E. A., M.A. Keble (Med. English) Lectr.

Procter, Evelyn E. S., M.A. St. Hugh's (Med. European) Lectr.
Weaver, J. R. H., M.A. Trin. (Med. Ecclesiastical) Lectr.
McFarlane, K. B., M.A. Magd. (Med. English) Lectr.

History, Military, v. Milit. H.

History, Modern, v. also Dipl.
Powicke, F. M., Litt.D. Liv., LL.D. St. And., M.A. Or., F.B.A. Reg. Prof.
Oman, Sir Charles W. C., K.B.E., M.A., D.C.L. All S. Chichele Prof.

Lecturers
Myres, J. N. L., M.A. Ch. Ch.
Gough, J. W., M.A. Or.
Coate, Mary, M.A. L.M.H.
Sumner, B. H., M.A. Ball. (Eastern European).
Thompson, Rev. J. M., M.A. Magd. (Mod. French).
Goodwin, A., M.A. Jes. (Mod. French).
..... (Engl. Const.).
Pantin, W. A., M.A. Or. (Eccl. Instns.).

Italian
Foligno, C. C., M.A. Magd. Serena Prof.
Whitfield, J. H., M.A. Magd. Lectr.

Law, v. *infra*

Logic
Price, H. H., M.A., B.Sc. New Coll. Wykeham Prof.

Mathematics, Pure
Dixon, A. L., M.A. Magd., F.R.S. Waynflete Prof.

Mathematics
Milne, E. A., M.A. Wadh., F.R.S. Rouse Ball Prof.
Whitehead, J. H. C., M.A. Ball. Lectr.
Newboult, H. O., M.A. Mert. Lectr.
Chaundy, T. W., M.A. Ch. Ch. Lectr.

Medicine, v. *infra*

Meteorology, v. Philosophy Expl.

Military History
Swinton, Maj.-Gen. Sir Ernest D., K.B.E., C.B., D.S.O., M.A. All S. (to 31.7.39) Chichele Prof.

Mineralogy and Crystallography
Bowman, H. L., M.A., D.Sc. Magd. Waynflete Prof.

Lectrs. and Demrs.
Spiller, R. C., M.A. Cath.
Powell, H. M., M.A., B.Sc. St. Joh. (Crystallog.).

Music
Allen, Sir Hugh P., G.C.V.O., Mus.D. Camb., D.Litt. Sheff., M.A., D.Mus. New Coll., F.R.C.M. Heather Prof.
Armstrong, T. H. W., M.A., D.Mus. Ch. Ch. Choragus (Asst. to Prof.).

Numismatics
Robinson, E. S. G., M.A., Ch. Ch. Reader.
Sutherland, C. H. V., M.A., Ch. Ch. Lectr.

Oriental Languages, v. *infra*

Palæography (Latin and English)
Denholm Young, N., M.A., B.Litt. Magd. Reader.

Papyrology
Lobel, E., M.A. Qu. Reader.
Bell, H. I., M.A. Or. Reader.
Roberts, C. H., M.A. St. Joh. Lectr.

Philology, Comparative
Braunholtz, G. E. K., M.A. Worc. Prof.

Philosophy

Lectrs.

Ross, Sir W. David, O.B.E., M.A., D.Litt. Or.
Mabbott, J. D., M.A. St. Joh.
Hardie, W. F. R., M.A. C.C.C.
Allan, D. J., M.A. Ball.
Carritt, E. F., M.A. Univ.

Philosophy, Experimental

Lindemann, F. A., M.A. Wadh. and Ch. Ch., F.R.S. Dr. Lee's Prof.
Dobson, G. M. B., M.A., D.Sc. Mert., F.R.S. (Meteorol.) Reader.
Keeley, T. C., M.A. Wadh. Demr. and Lectr.

Philosophy, Mental, v. also Logic

Brown, Wm., D.M. Ch. Ch. Wilde Reader.

Philosophy, Moral

Paton, H. J., M.A., D.Litt. C.C.C. White's Prof.

Philosophy, Metaphysical

Collingwood, R. G., M.A. Magd. Waynflete Prof.

Philosophy, Natural

Love, A. E. H., M.A., D.Sc. Qu., F.R.S. Sedleian Prof.

Physics

Townsend, J. S. E., M.A. New Coll., F.R.S. Wykeham Prof.

Lectrs. and Demrs.

Lattey, R. T., M.A., B.Sc. Trin.
Gill, E. W. B., M.A., B.Sc. Mert.
Keeley, T. C., M.A. Wadh.
McCallum, S. P., M.A., D.Phil. New Coll.
Johnson, P., M.A. Magd.
Dobson, G. M. B., M.A., D.Sc. Mert., F.R.S. (Climatol.).

Physiology, v. also Medicine

Mellanby, J., M.A. Camb. and Magd., M.D. Camb., F.R.S. Waynflete Prof.
Douglas, C. G., B.Sc., D.M. St. J. (Gen. Metabolism). Reader, Lectr. and Demr.

Lectrs. and Demrs.

Carleton, H. M., M.A., B.Sc., D.Phil. New Coll. (Animal Histol.).
Creed, R. S., D.M. New Coll.
Liddell, E. G. T., D.M. Trin.
Leach, E. H., M.A., B.Sc., B.N.C.

Poetry

Fox, Rev. A., M.A. Magd. Prof.

Political Econ.

Macgregor, D. H., M.A. All S. Drummond Prof.
Clark, G. N., M.A. All S. (Econ. Hist.) Chichele Prof.
Lennard, R. V., M.A. Wadh. (Ec. Hist.) Reader.

Political Theory and Institns.

Salter, Sir J. Arthur, K.C.B., LL.D. McG., M.A., D.C.L. All S., Com. Lég. d'H. Gladstone Prof.
Opie, R., M.A. Magd. (Econ. Sci.) Lectr.
Hall, R. L., M.A. Trin. (Econ. Sci.) Lectr.

Politics

Maud, J. P. R., M.A. Univ. Lectr.

Portuguese Studies

das Neves, F. J. Lectr.

Public Administration

Harris, G. Montagu, M.A. New Coll. Research Lectr.

Public Finance

Bretherton, R. F., M.A. Wadh. Research Lectr.

Religion, v. Theology

Romance Lang.

Ewert, A., M.A. Trin. Prof.

Rural Economy, v. *infra*

Science, History of [Reader.
Gunther, R. W. T., M.A. Magd.

Slavonic Studies
Konovaloff, S., M.A., B.Litt. Exe. Lectr.

Sociology, African
Evans-Pritchard, E. E., M.A. Exe. Research Lectr.

Spanish
Entwistle, W. J., M.A. Exe. King Alfonso XIII. Prof.
Kolkhorst, G. A., M.A. Exe. Reader.
Jimenéz, Don A. Lectr.

Spectroscopy
Jackson, D. A., M.A., D.Sc. Ball. Lectr.

Statistics
Marschak, J., M.A. All S. Reader.

Surveying (for Engin., Rural Ec., Forestry, Geog. Students, and Trop. Admin. Services probrs.).
Tandy, Lt.-Col. M. O., D.S.O., O.B.E., M.A. Worc. Instr.

Theology, v. *infra*

Thermodynamics
Simon, F., M.A. Ball. Reader.

Zoology and Comp. Anat., v. also Rural Econ.
Goodrich, E. S., Sc.D. Dub., M.A., D.Sc. Mert., F.R.S. Linacre Prof.
Carpenter, G. D. H., M.B.E., D.M. Jes. (Entomol.) Hope Prof.
Elton, C. S., M.A. C.C.C. (Animal Ecology) Reader, Lectr. and Demr.
Lectrs. and Demrs.
Pusey, H. K., M.A. St. Edm. H. (Embryol.) Jenkinson Lectr.
Tucker, B. W., M.A. Magd.
Baker, J. R., M.A., D.Phil., D.Sc. New Coll.
Ford, E. B., M.A., B.Sc. Wadh.
Young, J. Z., M.A. Magd.
Moy-Thomas, J. A., M.A. Ch. Ch.

Law

Civil [Reg. Prof.
de Zulueta, F., D.C.L. All S.

Criminal, and Evidence
Stallybrass, W. T. S., O.B.E., D.C.L. B.N.C. Reader.

English
Holdsworth, Sir W. S., K.C., Litt.D. Leeds, D.C.L. All S. Vinerian Prof.
Cheshire, G. C., D.C.L. Exe. All Souls Reader.
Fifoot, C. H. S., M.A. Hert. Lectr.
Landon, P. A., M.A. Trin. Lectr.
Hart, W. O., M.A., B.C.L. Wadh. Lectr.
Hanbury, H. G., D.C.L. Linc. Lectr.
Jones, J. W., M.A. Qu. Lectr.

Internat., and Diplomacy
Brierly, J. L., O.B.E., D.C.L. All S. Chichele Prof.

Internat. (Private)
Foster, J. G., M.A. All S. (to 3.4.39) All Souls Lectr.

International Relations
Zimmern, Sir Alfred E., M.A. New Coll. Montague Burton Prof.

Jurisprudence [Prof.
Goodhart, A. L., D.C.L. Univ.

Roman [All Souls Reader.
Lawson, F. H., M.A. Mert.

Roman-Dutch [Rhodes Prof.
Lee, R. W., D.C.L. All S.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Macintosh, R. R., D.M. Pemb., M.R.C.S., L.R.C.P., F.R.C.S. Edin. Nuffield Prof.

Anatomy, Morbid

Gibson, A. G , D.M. Mert. Nuffield Reader.

Bacteriology

Gardner, A. D., D.M. Univ. Reader and Prof.

Medicine

Buzzard, Sir E. Farquhar, Bt., K.C.V.O., D.M. Ch. Ch. Reg. Prof.

Cooke, A. M., D.M. Jesus May Reader and Fellow.

Duthie, E. S., M.A. Exe. Second May Reader.

Gibson, A. G., D M. Mert. Litchfield Lectr.

Medicine, Clinical

Witts, L. J., M.D. Manc., D.M. Magd., F.R.C.P. Nuffield Prof.

Obstetrics and Gynæcology

Moir, J. C., M.D. Edin., D.M. Or., F.R.C.S.E., F.C.O.G. Nuffield Prof.

Ophthalmology

Adams, P. E. H., M.A., B.M., Exe. Margaret Ogilvie's Reader.

Orthopædic Surgery

Girdlestone, G. R., M.A., B.M. New Coll., F.R.C.S. Nuffield Prof.

Pathology, v. also Anat., Morbid.

Florey, H. W., M.A., Ph.D. Camb., M.B., B.S. Adel., M.A., B.Sc. Linc. Prof.

Robb-Smith, A. H. T., M.D. Lond., M.A. Nuffield Reader.

Lectrs. and Demonstrators

Vollum, R. L., M.A., D.Phil. Linc.

Duthie, E. S., M.A. Exe.

Maegraith, B. G., M.A., B.Sc., D.Phil. Exe. Dean of Med. Sch.

Pharmacology

Burn, J. H., M.A. Ball. Prof.

Franklin, K. J., D.M. Or. Demr.

Physiology, Clinical

Priestley, J. G., D.M. Ch. Ch. Reader, Lectr. and Demr.

Surgery

Cairns, H. W. B., M.B., B.S. Adel., D.M. Ball., F.R.C.S. Nuffield Prof.

Rose-Innes, R. H., M.A. Or. Litchfield Lectr.

Therapeutics

Gunn, J. A., D.M. Ball. Nuffield Prof.

Oriental Languages

Arabic

Gibb, H. A. R., M.A. Lond., Edin. and St. Joh. Laudian Prof.

Assyriology

Thompson, R. Campbell, M.A., D.Litt. Mert. Shillito Reader.

Chinese

Yin-koh, C. (from 1.10.39) Prof.

Hughes, Rev. E. R., M.A. Linc. (C. Religion and Philos.) Reader.

Wei-Cheng, W. (C. Philos. and Religion) Spalding Lectr.

Eastern Religions and Ethics

Radhakrishnan, Sir Sarvapalli, M.A. All Souls Spalding Prof.

Egyptology

Gunn, B. G., M.A. Qu. Prof.

Hebrew

Danby, Rev. Canon H., D.D. Ch. Ch. Reg. Prof.
Driver, G. R., M.A. Magd. (Semitic Phil.) Prof. and Reader.
Raphael, C., M.A. Univ. (Post-Biblical H.) Cowley Lectr.

Jewish Studies, Post-biblical

Roth, C., B.Litt., M.A., D.Phil. Mert. Reader.

Sanskrit

Johnston, E. H., M.A., D.Litt. Ball. Boden Prof.

Rural Economy

Watson, J. A. S., M.A. St. Joh. Sibthorpian Prof.
Morison, C. G. T., M.A. Ch. Ch. (Soil Sci.) Reader.
Amery, G. D., M.A. B.N.C. (Economics and History) Lectr.

Lectrs. and Demrs.

Skilbeck, D., M.A. St. Joh.
Ellis, J. C. B., M.A. Jes. (Physics & Chem.).
Cunliffe, N., M.A., D.Sc. Wadh. (Agr. Entomol.) Demr.

Departmental Lectrs.

Cheshire, G. C., D.C.L. Exe. (Law).
Clarke, G. R., M.A., B.Sc. Or. (Chem.),
Wright, S. J., M.A. Camb and Exe. (Engin.).
Spencer, A. V., M.A. C.C.C. (Estate Management).
Orwin, C. S., M.A. Ball. (Econ.).
Upfold, S. J. (Accounts).
Tandy, M. O., M.A. Worc. (Surveying) (to 31.7.39)
Veale, D., M.A., C.C.C. (Local Govt.).
Vaux, E. H., B.A. Trin. (Building Constrn.).

Agr. Economics (Agr. Econ. Research Inst.)

Orwin, C. S., M.A. Ball. Director.
Bridges, A., M.A. Linc. Deputy Director.

Research Officers

Dixey, R. N., B.A. St. Joh.
Lee, J. R., M.A.
Murray, K. A. H., M.A., B.Litt. Linc.
Cohen, Ruth L., M.A. Som.
Sherrard, F. R. G. N., B.A. Camb.
Raeburn, J. R., B.Sc. Edin.

Agr. Engineering (Agr. Eng. Research Inst.)

Wright, S. J., M.A. Camb. and Exe. Director.

Research Officers

Cashmore, W. H., B.A. Camb.
Blackaby, J. H., M.Sc. Lond.
Wilson, J. S., M.A. New Coll.
Hamblin, H. J., B.A. Camb.
West, W. J., B.A. Camb.
MacDowall, R. K., Dipl. R.T.C. Glas.

Theology

Carpenter, Rev. H. J., M.A. Keble (Hist. of Early Christian Thought) Lectr.
Mortimer, Rev. R. C., B.D., M.A. Ch. Ch. (Early Canon Law). Lectr.
Cross, Rev. F. L., M.A., D.Phil. Ball. (Philos. of Religion) Lectr.
Farrer, Rev. A. M., M.A. Trin. (Biblical Studies) Speaker's Lectr.
Ratcliff, Rev. E. C., M.A. Qu. (Liturgiol.) Lectr.

Divinity

Goudge, Rev. Canon H. L., D.D. Ch. Ch. Reg. Prof.
Williams, Rev. Canon N. P., D.D. Ch. Ch. Lady Margaret Prof.

Ecclesiastical History

Jenkins, Rev. Canon C., D.D. Ch. Ch., F.S.A. Reg. Prof.

Exegesis
Lightfoot, Rev. R. H., M A New Coll. Dean Ireland's Prof.

Interpretation of Holy Script.
Simpson, Rev. D. C., D.D. Or. Oriel Prof.

Moral and Pastoral Theology
Hodgson, Rev. Canon L., S.T.D., D.C.L., D.D. Ch. Ch. Reg. Prof.

Nat. and Comparative Religion
Eisler, R., Ph.D. (Vienna) Wilde Lectr.

Philos. of Christian Religion
Grensted, Rev. L. W., D.D. Or. Nolloth Prof.

Religious Education
..... (from 1.10.39) Manchester Reader.

Septuagint [Grinfield Lectr.
Driver, G. R., M.A. Magd.

George Eastman Visiting Prof.
1938–39, Prof. T. Frank, Ph.D. Chic., M.A. Ball. (Johns Hopkins Univ.).

Bampton Lecturer
(alternate years)
1940, Rev. G. L. Prestige, D.D. New Coll.

Romanes Lecturer
1939, L. Binyon, C. H., D.Litt.
Subject—*Art and Freedom*

Ford's Lecturer in English Hist.
1938–39, Prof. Eileen Power, M.A., D.Lit. (London Univ.).
1939–40, Dr. J. A. Williamson.

Herbert Spencer Lecturer
1939, Prof. J. H. Muirhead, M.A. (Univ. of Birmingham).
Subject—*The Man versus the State as a Present Issue.*

Halley Lecturer
1939, Harold Spencer Jones, M A., Sc.D., F.R S., Astronomer Royal.
Subject—.....

Sidney Ball Lecturer in Econ.
1938, Dr. A. L. Bowley, C.B.E.
Subject—*The Average and the Individual.*

Sir Basil Zaharoff Lecturer
1938–39, M. Paul Valéry, D.Litt. (Collège de France).
Subject—*Poésie et Pensée abstraite en France.*

Taylorian Lecturer
1938–39, Dr. E. Hoepffner (Univ. of Strasbourg).
Subject—*Aux origines de la nouvelle française.*

Rhodes Memorial Lecturer
.....

Frazer Lecturer (Social Anthropology — Oxford, Cambridge, Glasgow, Liverpool in rotation)
1938–39—at Cambridge.

University Extension
Lecturers employed under the direction of the Extra-mural Studies Delegacy (about 30), *see* p. 283.

THE COLLEGES

ALL SOULS COLLEGE. Founded 1438. Tel. No. : Oxford 2606.
Warden—W. G. S. Adams, C.H., M.A., D.C.L.

Fellows

Oman, Sir Charles W. C., K.B.E., M.A., D.C.L., LL.D., F.B.A., F.S.A., *Librarian, Chichele Prof. of Mod. Hist.*

Robertson, Sir Charles Grant, C.V.O., M.A., D.Litt., LL.D.
Simon, Rt. Hon. Sir John A., G.C.S.I., G.C.V.O., M.A., D.C.L., LL.D., K.C., M.P.
Dawson, G. G., M.A., D.C.L.
Malcolm, Sir Dougal O., K.C.M.G., M.A.
Brand, Hon. R. H., C.M.G., M.A.
Craster, H. H. E., M.A., D.Litt., Litt.D., *Bodley's Librarian.*
Pollard, A. F., M.A., D.Litt., Litt.D., F.B.A.
Archibald, J. G., M.A.
Somervell, Rt. Hon. Sir Donald B., O.B.E., M.A., K.C., M.P.
de Zulueta, F., D.C.L., F.B.A., *Regius Prof. of Civil Law.*
Woodward, E. Ll., M.A., *Domestic Bursar.*
Faber, G. C., M.A., *Sub-Warden, Estates Bursar.*
Coupland, R., C.I.E., M.A., *Beit Prof. of Colonial Hist.*
Curtis, L. G., M.A.
Lee, R. W., D.C.L., F.B.A., *Rhodes Prof. of Roman-Dutch Law.*
Macgregor, D. H., M.C., M.A., *Drummond Prof. of Polit. Econ.*
Holdsworth, Sir William S., Litt.D., D.C.L., LL.D., K.C., *Vinerian Prof. of Eng. Law.*
Jacob, E. F., M.A., D.Phil.
Greene, Rt. Hon. Sir Wilfrid A., O.B.E., M.C., C.G., M.A., D.C.L.
Brierly, J. L., O.B.E., D.C.L., *Chichele Prof. of Internat. Law and Diplomacy.*
Headlam, Rt. Rev. A. C., C.H., D.D.
Swinton, Maj.-Gen. Sir Ernest D., K.B.E., C.B., D.S.O., M.A., *Dean, Chichele Prof. of Military Hist.*
Pares, R., M.A., *Dean.*
Foster, J. G., M.A., *All S. Lectr. Private Internat. Law.*
Rowse, A. L., M.A.
Rudler, G., M.A., *Foch Prof. of French Lit.*
Jones, A. H. M., M.A.
Hudson, G. F., M.A.
Dannreuther, D. S., M.A.
Sparrow, J. H. A., M.A.
Rickett, D. H. F., M.A.
Clark, G. N., M.A., F.B.A., *Chichele Prof. of Econ. Hist.*
Hogg, Hon. Q. McG., M.A., M.P.
Rees, M. G., B.A.
Wilberforce, R. O., M.A.
Reilly, D'A. P., M.A.
Salter, Sir J. Arthur, K.C.B., M.A., D.C.L., LL.D., M.P., *Gladstone Prof. of Polit. Theory and Instns.*
Henderson, H. D., M.A.
Latham, R. T. E., B.A.
O'Neill, C. D. W., B.A.
Plamenatz, J. P., M.A.
Campbell, A. H., M.A., B.C.L.
Macartney, C. A., M.A.
Routh, D. A., M.A.
Hampshire, S. N., B.A.
Dunbabin, T. J., M.A.
Radcliffe-Brown, A. R., M.A., *Prof. of Social Anthropol.*
Brown, A. J., B.A.
Cox, A. D. M., B.A.
Brook, Rev. V. J. K., M.A., *Chaplain.*
Butler, R. D'O.
Davies, Henry W., B.A.

BALLIOL COLLEGE. Founded 1263–1268. Tel. No.: Oxford 47244.

Master—A. D. Lindsay, C.B.E., M.A., LL.D.

Fellows

Hartley, Sir Harold B., C.B.E., M.C., D.Sc. Sheff., M.A., F.R.S., *Sr. Research Fellow.*
Bailey, C., M.B.E., D.Litt. Durh. and Ox., LL.D. Calif. and Glas., M.A., F.B.A., *Jowett Lectr., Tutor (Classics), Public Orator.*
Bell, K. N., M.C., M.A., *Tutor (Mod. Hist.), Dean of Degrees.*
Macgregor, D. C., M.A., *Tutor (Classics).*
Ridley, Rev. M. R., M.A., *Tutor (Engl. Lit. and for Admissions), U. Lectr. (Eng. Lit.).*
Morris, C. R., M.A. *Tutor (Classics), Jowett Lectr. (Philos.).*
Orwin, C. S., M.A., *Estates Bursar.*
Rodger, A. B., M.A., *Tutor (Econ.), Dean.*

Sumner, B. H., M.A., *Tutor* (*Mod. Hist.*), *U. Lectr.* (*E. Europ. Hist.*).
Gunn, J. A., D.Sc., M.D. Edin., M.A., D.M., F.R.C.P., *Nuffield Prof. of Therapeutics.*
Mynors, R. A. B., M.A., *Tutor* (*Classics*), *U. Lectr.* (*Gk. and Latin Lang. and Lit.*), *Librarian.*
Fulton, J. S., M.A., *Tutor* (*Classics*).
Duke, A. C. H., C.M.G., D.S.O., M.A., *Home Bursar.*
Tylor, T. H., M.A., B.C.L., *Tutor* (*Jurispr.*).
Allan, D. J., M.A., *Tutor* (*Classics*), *U. Lectr.* (*Philos.*).
Allen, W. M., B.Sc. Lond., M.A., *Tutor* (*Econ.*).
Bell, R. P., M.A., *Tutor* (*Nat. Sci.*), *Bedford Lectr.* (*Phys. Chem.*), *U. Lectr. and Demr.* (*Chem.*).
Whitehead, J. H. C., M.A., *Tutor, U. Lectr.* (*Maths.*).
Philpot, J. St. L., M.A., B.Sc., *Senr. Research Fellow.*
Cairns, H. W. B., M.B., B.S. Adel., M.A., D.M., F.R.C.S., *Nuffield Prof. of Surg.*
Johnston, E. H., M.A., D.Litt., *Boden Prof. of Sanskrit.*
Burn, J. H., M.D. Camb., M.A., *Prof. of Pharmacol.*
Southern, R. W., M.A., *Tutor* (*Mod. Hist.*).
Hoey, A. S., M.A., *Junr. Research Fellow.*
Ogston, A. G., B.A., D.Phil., *Tutor* (*Biolog. Sciences*).
Keyes, H. M., *Junr. Research Fellow.*
Layng, Rev. T. M., M.C., M.A., *Chaplain.*
Hill, J. E. C., M.A., *Tutor* (*Mod. Hist.*).
Watt, W. S., B.A., *Tutor* (*Classics*).
Frank, Tenney, M.A., F.B.A., *George Eastman Visiting Prof.*

Other Tutors and Lecturers

Bryson, J. N., M.A. Mert., *Tutor* (*Engl. Lit.*).
King, F. E., M.A., D.Phil., *Lectr.* (*Org. Chem.*), *U. Lectr. and Demr.* (*Chem.*).
Lidwell, O. M., B.A., *Demr.* (*Phys. Chem.*).
Meiggs, R., M.A. Keble, *Lectr.* (*Rom. Hist.*).

BRASENOSE COLLEGE. Founded 1509. Tel. No.: Oxford 2281.

Principal—W. T. S. Stallybrass, O.B.E., D.C.L., Reader in Criminal Law and Law of Evidence.

Fellows

Stocker, W. N., M.A., *Lectr.*
Holroyd, M., M.A., F.S.A., *Senr. Tutor.*
Griffith, I. O., A.F.C., M.A., *Tutor, Librarian.*
Taylor, T. W. J., M.A., *Tutor, U. Demr. and Lectr.* (*Chem.*).
Platnauer, M., M.A., B.Litt., *Vice-Principal, Tutor, U. Lectr.* (*Gk. and Latin Lang. and Lit.*).
Spalding, K. J., M.A., *Lectr.* (*Philos.*), *Senr. Research Fellow.*
McKie, J. I., M.A., *Tutor and Sr. Dean.*
Southwell, R. V., M.A., F.R.S., *Prof.* (*Engineering Science*).
Waldock, C. H. M., B.C.L., M.A., *Tutor.*
Grant, A. D., M.A., *Bursar and Jr. Dean.*
Ker, A., M.A., *Lectr.*
Cohn, E. S., M.A., *Lectr.*
Owen, Rev. R. H., M.A., *Chaplain, Tutor.*
Collieu, E. G., M.A., B.Litt., *Lectr.*
Last, H. M., LL.D., M.A., *Camden Prof. of Anc. Hist.*
Chakravarty, A. C., D.Phil., *Senr. Research Fellow.*
Baké, A. A., D.Litt. Utrecht, M.A., *Senr. Research Fellow.*
Leeds, E. T., M.A., F.S.A.

Other Lecturers

Brett-Smith, H. F. B., M.A. (*Engl. Lit.*), *U. Reader* (*Engl. Lit.*).
Amery, G. D., M.C., M.A. (*Agric.*), *U. Lectr.* (*Hist. and Econs. of Agric.*).
Bowen, I. I., M.A. (*Econ.*).
Belfield, V., M.A. (*Eng. Sci.*), *U. Lectr. and Demr.* (*Eng. Sci.*).
Narishkin, V., M.A. (*French*).
Maxse, R. E. B., B.Litt. (*German*).

CHRIST CHURCH. Founded 1546. Tel. No.: Oxford 2202.

Dean—.....

Canons

Goudge, Rev. H. L., D.D., *Sub-Dean, Regius Prof. of Divinity.*
Williams, Rev. N. P., D.D., *Lady Margaret Prof. of Divinity.*
Jenkins, Rev. Canon C., D.D., F.S.A., *Regius Prof. of Eccles. Hist.*
Danby, Rev. H., D.D., *Regius Prof. of Hebrew.*
Allen, Rt. Rev. G. B., D.D., *Archdeacon of Oxford*
Hodgson, Rev. Canon L., M.A., S.T.D., D.C.L., D D., *Regius Prof. of Moral and Pastoral Theol.*

Students (equivalent to Fellows)

Payne-Smith, Rev. W. H., M.A.
Dundas, R. H., M.A., *Tutor.*
Hutchinson, G. T., M.C., M.A., *Treasurer.*
Chaundy, T. W., M.A., *Tutor, U. Lectr.* (*Maths.*).
Feiling, K. G., O.B.E., M.A., D.Litt., *Research Student.*
Masterman, J. C., M.A., *Tutor.*
Russell, A. S., M.C., D.Sc. Glas., M.A., *Tutor, Dr. Lee's Reader in Chem., U. Lectr.* (*Chem.*).
Heaton, T. B., O.B.E., D.M., M.R.C.P., *Tutor, Dr. Lee's Reader in Anat.*
Lindemann, F. A., Ph.D.Berl., M.A., F.R.S., *Dr. Lee's Prof. of Exp. Philos.*
Taylor, F. A., M.A., *Tutor.*
Harrod, H. R. F., M.A., *Tutor.*
Barrington-Ward, J. G., M.A., *Tutor, Librarian.*
Ryle, G., M.A., *Tutor.*
Morison, C. G. T., M.A., *Tutor, U. Reader* (*Soil Sci.*).
Buzzard, Sir E. F., Bt., K.C.V.O., LL.D. Manit., D.M., F.R.C.P., *Regius Prof. of Medicine.*
Myres, J. N. L., M.A., *Tutor, U. Lectr.* (*Mod. Hist.*).
Percival, Col. Sir H. F. P., K.C.M.G., C.B.E., D.S.O., M.A., *Steward.*
Grant-Bailey, S. N., M.A. Ox. and Camb., LL.M. Camb., *Tutor.*
Mortimer, Rev. R. C., B.D., M.A., *Tutor, U. Lectr.* (*Early Canon Law*).
Foster, M. B., Ph.D. Kiel, M.A., *Censor and Tutor.*
Collie, C. H., B.Sc., M.A., *Tutor, Dr. Lee's Reader in Phys., Research Student.*
Gordon-Walker, P. C., M.A., B.Litt., *Tutor.*
Page, D. L., M.A., *Censor and Tutor, U. Lectr.* (*Gk. and Latin Lit.*).
Pakenham, Hon. F. A., M.A., *Tutor.*
Ayer, A. J., M.A., *Research Student.*
Roaf, D., M.A., D.Phil., *Research Student.*
Dodds, E. R., M.A., *Regius Prof. of Greek.*
Dillwyn, C. L., B.A., *Tutor.*

Lecturers

Wheare, K. C., M.A., *Beit Lectr.* (*Colonial Hist.*).
Armstrong, T. H. W., M.A., D.Mus.
Moy-Thomas, J. A., M.A.
Whitrow, G. J., M.A., *Choragus.*
Maclagan, M., B.A.
Jacobsthal, P., M.A.
Wylie, S., M.A.
Gray, E. W., B.A.

CORPUS CHRISTI COLLEGE. Founded 1517. Tel. No.: Oxford 2622.

President—Sir Richard W. Livingstone, D.Litt. Belf., Durh., and Tor., LL.D. St. And., M.A.

Fellows

Phelps, W., M.A., *Senr. Tutor.*
Pidduck, F. B., M.A., D.Sc., *Tutor.*
Hardie, W. F. R., M.A., *Tutor, U. Lectr.* (*Philos.*).
Geary, F. C., M.A., *Dean and Tutor.*
Veale, D., C.B.E., M.A., *U. Registrar.*
Sawyer, Rev. H. A. P., M.A., *Chaplain, Divinity Lectr.*
Brogan, D. W., M.A. Glas. and Ox., *Tutor.*

Fraenkel, E. D. M., D.Phil. Göttingen, M.A., *Corpus Prof. of Latin.*
Elton, C. S., M.A., *Senr. Research Fellow, Reader (Animal Ecol.), U. Demr. (Zool. and Compar. Anat.).*
Ensor, R. C. K., M.A., *Vice-President*
Paton, H. J., M.A., D.Litt.
Beloff, M., B.A., B.Litt., *Jnr. Research Fellow.*

Other Lecturers

Hammick, D. Ll., M.A. Oriel (*Nat. Sc.*), *U. Demr. and Lectr.* (*Chem.*).

Tylor, T. H., M.A., B.C.L. Ball. (*Jurisprud.*).

Sayers, R. S., M.A. Camb. and Ox. (*Econ.*).

EXETER COLLEGE. Founded 1314. Tel. No.: Oxford 4681.

Rector—R. R. Marret, LL.D. St. And., M.A., D.Litt., D.Sc., F.B.A.

Fellows

Atkinson, C. T., M.A. *Lectr.* (*Mod. Hist.*).

Cheshire, G. C., M.A., D.C.L., *Lectr.* (*Law*), *All Souls Reader* (*English Law*).

Barber, E. A., M.A., F.B.A., *Senr. Tutor, Lectr.* (*Classics*), *U. Lectr.* (*Gk. and Latin Lit.*).

Coghill, N. H. K. A., M.A., *Lectr.* (*Engl.*).

Balsdon, J. P. V. D., M.A., *Sub-Rector, Tutor, Lectr. and U. Lectr.* (*Anc. Hist.*).

Wolfenden, J. H., M.A., *Tutor, Lectr. and U. Lectr. and Demr.* (*Chem.*).

Kneale, W. C., M.A., *Tutor, Lectr.* (*Philos.*), *Librarian.*

Kingdon, Rev. H. P., M.A., *Chaplain and Lectr.* (*Theol.*).

Maegraith, B. G., M.B., B.S. Adel., B.Sc., M.A., D.Phil., *Staines Medical Fellow, U. Lectr. and Demr.* (*Pathol.*).

Jones, D. M., B.A., *Jr. Research Fellow.*

Professorial Fellows

Dawkins, R. MacG., M.A., F.B.A., *Bywater and Sotheby Prof. of Byzantine and Mod. Greek.*
Entwistle, W. J., M.A., *King Alfonso XIII Prof. of Spanish Studies.*
Hinshelwood, C. N., Sc.D. Dub., M.A., F.R.S., *Dr. Lee's Prof. of Chem.*

Other Tutors and Lecturers

Hunt, H. J., M.A., D.Phil. Magd. (*French*).
Struth, M. Le V., M.A. (*French*).
Raphael, C., M.A. Univ. (*Hebrew*), *Cowley Lectr.* (*Post Bibl. Hebrew*).
Griffiths, J. H. E., M.A., D.Phil. Magd. (*Phys.*).
Thompson, J. H. C., M.A., D.Phil. Wadh. (*Maths.*).
Sayers, R. S., M.A. Pemb. (*Econ.*).
Denholm-Young, N., B.Litt., M.A. Madg. (*Mediæval Hist.*), *Reader in Lat. and Eng. Palæog.*
Nicholas, H. G., B.A. New (*Mod. Hist. and Pol. Sci.*).

Catechist

Williams, Rev. N. P., D.D., *Lady Margaret Prof. of Divinity and Canon of Christ Church.*

HERTFORD COLLEGE. Founded 1874. Tel. No.: Oxford 2234.

Principal—C. R. M. F. Cruttwell, M.A., D.Litt.

Fellows

Murphy, N. R., M.A., *Lectr.* (*Philos.*).
Denniston, J. D., O.B.E., C.G., M.A., *Tutor, Lectr.* (*Classics*), *Librarian, U. Lectr.* (*Gk. and Lat. Lit.*).
Hignett, C., M.A., *Senior Tutor, Lectr. and U. Lectr.* (*Anc. Hist.*), *Dean of Degrees.*
Fifoot, C. H. S., M.A., *Lectr.* (*Jurispr.*), *U. Lectr.* (*Law*).

Ferrar, W. L., M.A., *Bursar, Lectr.*
Markham, F. M. H., M.A., *Dean, Lectr.* (*Mod. Hist.*).
Mason, Col. K., M.C., R.E., M.A., *Prof. of Geog.*
Armstrong, C. A. J., M.A., *Lectr.* (*Mod. Hist.*)
Clark, W. E. le Gros, D.Sc. Lond., M.A., F.R.C.S., F.R.S., *Dr. Lee's Prof. of Anat.*

Other Lecturers

Brett-Smith, H. F. B., M.A. (*Engl. Lit.*), *Reader in Engl. Lit.*
Wilkins, W. H., M.A., D.Phil. (*Nat. Sci.*), *U. Lectr. and Demr.* (*Bot.*).
Brown, A. J., B.A. All Souls (*Econ.*).

JESUS COLLEGE. Founded 1571. Tel. No.: Oxford 3118.

Principal—A. E. W. Hazel, C.B.E., LL.D. Dub., M.A., B.C.L., K.C.

Fellows

Poulton, Sir Edward B., D.Sc. Dub., Durh., Syd., LL.D. Princeton, M.A., D.Sc., F.R.S.
Chapman, D. L., M.A., F.R.S., *Vice-Principal, Tutor.*
Edwards, J. G., M.A., *Senr. Tutor.*
Fraser, J., M.A. Aberd. and Ox., LL.D. Aberd., *Jesus Prof. of Celtic.*
Hodgkinson, J., M.A., *Dean and Tutor.*
George, H. J., M.A., *Senr. Bursar and Tutor, U. Lectr.* (*Chem.*).
Seymour, P. A., M.A., *Jnr. Dean and Tutor.*
Cross, Rev. L. B., M.A., *Chaplain, Junior Bursar and Tutor.*
Carpenter, G. D. H., D.M., *Hope Prof. of Zool.*
Goodwin, A., M.A., *Librarian and Tutor, U. Lectr.* (*Mod. French Hist.*).
Hurst, C., M.A., D.Phil., *Tutor.*
Cross, R. C., M.A. Glas., B.A., *Tutor.*
Griffith, J. G., B.A., *Tutor.*

Other Lecturers

Brett-Smith, H. F. B., M.A. (*Engl. Lang. and Lit.*), *Reader in Engl. Lit.*
Hunt, H. J., M.A., D.Phil. (*French*), *U. Lectr.* (*French Hist.*).
Baker, J. N. L., M.A., B.Litt. (*Geog.*), *Reader* (*Historical Geog.*).

LINCOLN COLLEGE. Founded 1427. Tel. No.: Oxford 2580.

Rector—J. A. R. Munro, M.A.

Fellows

Sidgwick, N. V., C.B.E., D.Sc. Leeds and Tübingen, LL.D. Liv., M.A., F.R.S., *Lectr.* (*Nat. Sci.*), *Prof. of Chem.*
Marchant, E. C., M.A.
Carlyle, E. I., M.A., *Sr. Tutor, Lectr.* (*Mod. Hist.*).
Hanbury, H. G., M.A., D.C.L., *Lectr.* (*Jurispr.*), *U. Lectr.* (*Law*).
Beazley, J. D., Litt.D. Camb., D.Ph. Marb., M.A., F.B.A., *Lincoln Prof. of Class. Archæol. and Art.*
Cox, H. H., M.A., *Sub-Rector, Lectr.* (*Philos.*) *and Librarian.*
Florey, H. W., Ph.D. Camb., M.A., B.Sc., *Prof. of Pathol.*
Turner, Rev. H. E. W., M.A., *Chaplain, Dean of Degrees, Lectr.* (*Theol.*), *Jr. Tutor.*
Murray, K. A. H., M.A., B.Litt., *Bursar.*

Other Lecturers

Coghill, N. H. K. A., M.A. Exe. (*Eng. Lit.*).
Dowdell, E. G., M.A., D.Phil. St. Joh. (*Econ.*).
Garabedian, D., M.A. Cath. (*French*).
Morison, C. G. T., M.A. Ch. Ch. (*Agric Chem.*).

MAGDALEN COLLEGE. Founded 1458. Tel. No.: Oxford 3151.

President—George S. Gordon, LL.D. Glas., Litt.D. Leeds, M.A., Vice-Chancellor of the University.

Fellows

Benecke, P. V. M., M.A.

Miers, Sir Henry A., LL.D. Liv., Mich., D.Sc. Manc., Sheff., Ph.D. Oslo, M.A., D.Sc., D.C.L., F.R.S.

Bowman, H. L., M.A., D.Sc., *Waynflete Prof. of Mineral. and Crystallog.*

Sherrington, Sir Charles S., O.M., G.B.E., M.A., D.Sc., Sc.D., M.D., LL.D., F.R.S.

Salter, Rev. H. E., M.A., D.Litt., F.B.A.

Hope, E., D.Sc. Manc., M.A., *U. Lectr. and Demr.* (*Chem.*).

Driver, G. R., M.C., M.A., *Librarian, Reader in Semitic Philology.*

Lee, S. G., M.A., *Tutor* (*Mod. Hist.*).

Dixon, A. L., M.A., F.R.S., *Waynflete Prof. of Pure Maths.*

Snow, G. R. S., B.Sc., M.A.

Weldon, T. D., M.C., M.A., *Tutor* (*Philos.*).

Onions, C. T., C.B.E., Litt.D. Leeds, LL.D. Birm., M.A., D.Litt., *Reader in Engl. Philol.*

Lewis, C. S., M.A., *Tutor* (*Engl. Lang. and Lit.*), *U. Lectr.* (*Engl. Lit.*).

Parker, H. M. D., M.A., *Vice-President, Tutor* (*Anc. Hist.*).

Foligno, C. C., C.G., M.A., *Serena Prof. of Italian.*

McFarlane, K. B., M.A., *Tutor, U. Lectr.* (*Med. Hist.*), *Sec. to Tutorial Bd.*

Fox, Rev. A., M.A., *Dean of Divinity and Prof. of Poetry.*

Johnson, P., M.A., *Lectr., U. Lectr. and Demr.* (*Physics*).

Robinson, Sir R., LL.D. Edin. and Birm., D.Sc. Liv. and Wales, M.A., F.R.S., *Waynflete Prof. of Chem.*

Forster, A. J., M.B.E., M.A., *Estates Bursar.*

Chapman, R. W., LL.D. St. And., M.A., D.Litt.

Denholm-Young, N., M.A., B.Litt., *Reader in Latin and Engl. Palæog.*

Opie, R., M.A., Ph.D. Harv., B.Com. Durh., M.A., *Tutor* (*Econ.*), *Home Bursar, U. Lectr.* (*Econ. Sci.*).

Young, J. Z., M.A., *Lectr.* (*Zool.*), *U. Lectr. and Demr.* (*Zool. and Comp. Anat.*).

Moullin, E. B., M.A., *Pollock Reader* (*Engin. Sci.*).

Sutton, L. E., M.A., D.Phil., *Tutor* (*Chem.*).

Mackenzie, W. J. M., LL.B. Edin., M.A., *Tutor* (*Politics*), *Sr. Dean of Arts.*

Stevens, C. E., M.A., B.Litt.

Phillips, E. G., M.A., D.Phil.

Collingwood, R. G., M.A., F.B.A., F.S.A., *Waynflete Prof. of Metaphys. Philos.*

Austin, J. L., M.A., *Tutor* (*Philos.*).

Bazell, C. E., M.A.

Griffiths, J. H. E., M.A., D.Phil.

Mellanby, J., M.D. Camb., M.A., F.R.S., *Waynflete Prof. of Physiol.*

Hardie, C. G., M.A., *Tutor* (*Classics*), *Jr. Dean of Arts.*

Morris, J. H. C., M.A., B.C.L., *Tutor* (*Law*).

Osborn, T. G. B., D.Sc. Manc., M.A., *Sherardian Prof. of Bot.*

Sinclair, H. M., B.M., M.A., B.Sc., *Tutor* (*Physiol.*).

Witts, L. J., M.D. Manc., D.M., *Nuffield Prof. of Clinical Medicine.*

Hunt, D. W. S., B.A.

Taylor, A. J. P., M.A., *Tutor* (*Mod. Hist.*).

Medawar, P. B., B.A.

Cheney, C. R., M.A., *Reader* (*Diplomatic*).

Hume-Rothery, W., M.A., D.Sc., F.R.S., *U. Lectr.* (*Chem.*).

Waterhouse, E. K., M.A.

Lecturers

King, F. E., M.A., D.Phil. (*Org. Chem.*), *U. Lectr. and Demr.* (*Chem.*).

Thompson, J. H. C., M.A., D.Phil. Wadh. (*Maths.*).

Rees, R., B.A. (*Mod. Langs.*).

MERTON COLLEGE. Founded 1264. Tel. No.: Oxford 2269.

Warden—Sir John C. Miles, M.A., B.C.L.

Fellows

Goodrich, E. S., LL.D. Edin., Sc.D. Dub., M.A., D.Sc., F.R.S., *Linacre Prof. of Zool. and Comp. Anat.*

Garrod, H. W., C.B.E., D.Litt. Durh., M.A., F.B.A., *Librarian.*

Gill, E. W. B., O.B.E., M.A., B.Sc., *U. Lectr. and Demr.* (*Physics*).

Mure, G. R. G., M.C., M.A., *Tutor, U. Lectr.* (*Philos.*).

Lambert, B., O.B.E., M.A., D.Sc., *Tutor, U. Lectr. and Demr.* (*Chem.*).

Wyld, H. C. K., Ph.D. Uppsala, B.Litt., M.A., *Merton Prof. of Engl. Lang. and Lit.*

Deane-Jones, I., M.A., *Sr. Tutor.*

Smith, D. Nichol, D.Litt. Durh., LL.D. Glas., M.A., F.B.A., *Merton Prof. of Engl. Lit.*

Thompson, R. C., M.A., D.Litt., F.B.A., *Shillito Reader in Assyriol.*

Newboult, H. O., M.A., *Tutor and Dean, U. Lectr.* (*Maths.*).

Lawson, F. H., M.A., *Tutor, All Souls Reader in Roman Law.*

Levens, R. G. C., M.A., *Tutor.*

Harrison, A. R. W., M.A., *Tutor.*

Blunden, E. C., M.A., *Tutor.*

Williams, Rev. C. S. C., M.A. (*Divinity Lectr.*).

Gibbs, N. H., M.A., D.Phil., *Tutor.*

Walsh, W. H., B.A.

Dobson, G. M. B., M.A., D.Sc., F.R.S., *Reader in Meteorol., U. Lectr. and Demr.* (*Phys. and Climatol.*).

Williams, E. T., M.A.

Trevor-Roper, H. R., B.A.

Gibson, A. G., D.M., *Nuffield Reader in Morbid Anat.*

Maidment, K. J., M.A.

Lecturer

Carter, C. W., B.M., M.A. Qu. (*Physiol.*), *U. Lectr. and Demr.* (*Bio-Chem.*).

NEW COLLEGE. Founded 1379. Tel. No.: Oxford 2225.

Warden—Rt. Hon. H. A. L. Fisher, O.M., D.Litt. Sheff., LL.D. Edin., Camb., Manc., Liv., M.A., D.C.L., F.R.S., F.B.A.

Fellows

Matheson, P. E., M.B.E., M.A.

Joseph, H. W. B., M.A., F.B.A.

Townsend, J. S. E., M.A., F.R.S., O. Lég. d'H., *Wykeham Prof. of Physics.*

Henderson, H. L., O.B.E., M.A., *Tutor, Dean of Arts.*

Allen, Sir Hugh P., G.C.V.O., D.Mus. Ox. and Camb., D.Litt. Sheff. and Reading, D.Phil. Berlin, M.A., *Heather Prof. of Music.*

Myres, J. L., O.B.E., D.Sc. Wales and Manc., D.Litt. Witw., M.A., F.B.A., F.S.A., *Wykeham Prof. of Anc. Hist., Librarian.*

Ogg, D., M.A., *Tutor.*

Smith, A. H., C.B.E., M.A., *Tutor, Precentor.*

Radcliffe, G. R. Y., D.C.L., *Sr. Bursar.*

Casson, S., M.A., A.R.I.B.A., *Lectr., Reader in Class. Archæol.*

Poole, E. G. C., M.A., D.Phil., *Lectr.*

Lightfoot, Rev. R. H., D.D. Aberd., M.A., *Tutor, Tutor of Admissions, Dean of Div., Dean Ireland's Prof. of Exegesis.*

Creed, R. S., D.M., *Tutor, U. Lectr. and Demr.* (*Physiol.*).

Cox, C. W. M., M.A.

McCallum, S. P., M.A., D.Phil., *Lectr., Jr. Bursar, U. Lectr. and Demr.* (*Physics*).

Yorke, E. C., M.A. Ox. and Camb., *Tutor.*

Jenkins, H. J. S., B.C.L., M.A., *Tutor.*

Brown, E. H. Phelps, M.A., *Tutor and Tuition Sec.*

Zimmern, Sir A. E., M.A., *Montague Burton Prof. of Internat. Relations.*

Titchmarsh, E. C., M.A., F.R.S., *Savilian Prof. of Geom.*
Plaskett, H. H., M.A., F.R.S., *Savilian Prof. of Astron.*
Arkell, W. J., M.A., D.Phil., D.Sc., *Sr. Research Fellow.*
Carleton, H. M., M.A., D.Phil., B.Sc., *Sr. Research Fellow, U. Lectr. and Demr. (Animal Histol.).*
Price, H. H., M.A., B.Sc., *Wykeham Prof. of Logic.*
Boult, D. R., LL.B. Lond., B.C.L.
Girdlestone, G. R., M.A., B.M., *Nuffield Prof. of Orthopædic Surgery.*
Berlin, I., M.A.
Cecil, Lord Edward, C.D.G., M.A.

Other Lecturers

Woodward, E. Ll., M.A. All S.
House, H. W., D.S.O., M.C., M.A. Qu.
Pares, R., M.A. All S.
Binnie, A. M., M.A. Camb. and Ox., *U. Lectr. and Demr. (Engin.).*
Wheare, K. C., M.A. Ch.Ch., *Beit Lectr. (Colonial Hist.).*
Lepper, F. A., B.A.

ORIEL COLLEGE. Founded 1326. Tel. No. : Oxford 3135.

Provost—Sir W. David Ross, K.B.E., Litt.D. Dub., LL.D. Edin. and Manc., M.A., D.Litt., P.B.A., Univ. Lecturer in Philosophy.

Fellows

Tod, M. N., O.B.E., C.G., Litt.D. Dub., M.A., F.B.A., *Vice-Provost and Tutor, Reader (Gk. Epigr.).*
Hammick, D. Ll., M.A., *Tutor, U. Lectr. and Demr. (Chem.).*
Franklin, K. J., D.M., M.A., *Tutor and Librarian, U. Demr. (Pharmacol.).*
Simpson, Rev. D. C., D.D., *Oriel Prof. of Interpretation of Holy Scripture.*
Hargreaves, E. L., M.A., *Senr. Tutor.*
Emden, C. S., D.F.C., M.A., *Treasurer.*
Powicke, F. M., Litt.D. Manc., Liv. and Harv., D.Lit. Belf., LL.D. St. And., M.A., F.B.A., *Reg. Prof. of Mod. Hist.*
Grensted, Rev. L. W., D.D., *Nolloth Prof. of Philos. of Christian Religion.*
Maclagan, W. G., M.A., *Tutor.*
Burton, R. W. B., M.A., *Lectr.*
Gough, J. W., M.A., *Tutor, U. Lectr. (Mod. Hist.).*
Pantin, W. A., M.A., *Lectr., U. Lectr. (Ecclesiast. Instns.).*
Margoliouth, H. M., M.A., *Professorial Fellow.*
Crow, A. D., M.A., B.Litt., *Lectr.*
Thompson, E. J., M.C., M.A., *Sr. Research Fellow.*
Moir, J. Chassar, M.D. Edin., M.A., D.M., *Nuffield Prof. of Obstet. and Gynæcol.*
Collins, Rev. L. J., M.A., *Dean, Chaplain and Lectr.*

Other Lecturers

Tucker, B. W., M.A. *(Zool.), U. Demr. (Zool. and Comp. Anat.).*
James, W. O., M.A., D.Phil. *(Bot.), U. Lectr. and Demr. (Zool. and Comp. Anat.).*
Bryson, J. N., M.A. *(English).*
Waldock, C. H. M., M.A., B.C.L. B.N.C. *(Law).*
Klibansky, R., Ph.D. Heid., M.A. *(Med. Philos.).*
Wheare, K. C., M.A. *(Political Sci.), Beit Lectr. (Colonial Hist.).*
Clarke, G. R., M.A., B.Sc. *(Agric. and For.).*
Hanbury, H. G., D.C.L. Linc., *and U. Lectr. (Law).*
Kelly, J., M.A. *(Classics).*
Houghton, Rev. R. E. C., M.A.

PEMBROKE COLLEGE. Founded 1624. Tel. No. : Oxford 2271.

Master—Rev. Canon F. Homes Dudden, D.D.

Fellows

Ramsden, W., D.M.
Drake, H. L., M.A., *Vicegerent, Tutor.*
Salt, L. E., M.A., *Bursar.*
McCallum, R. B., M.A., *Tutor and Lectr. (Mod. Hist.).*

Tolkien, J. R. R., M.A., *Rawlinson and Bosworth Prof. of Anglo-Saxon.*
Macnabb, D. G. C., M.A., *Lectr.* (*Philos.*).
Mackintosh, R. R., M.A., *Nuffield Prof. of Anæsthetics.*
Andrewes, A., M.A., *Lectr.* (*Ancient Hist.*).
Deighton, Rev. H. S., M.A., B.Litt., *Dean, Chaplain, Lectr.* (*Classics and Mod. Hist.*).

Other Lecturers

Brett - Smith, H. F. B., M.A. (*English*), *Reader* (*Engl. Lit.*).
George, H. J., M.A. Jesus (*Nat. Sc.*), *U. Lectr.* (*Chem.*).
Sayers, R. S., M.A. (*Econ.*).
Bisson, L. A., M.A., *and U. Lectr.* (*French*).

THE QUEEN'S COLLEGE. Founded 1340. Tel. No.: Oxford 2278.
Provost—R. H. Hodgkin, M.A.

Fellows

Allen, T. W., M.A., F.B.A.
Thompson, C. H., M.A.
Chattaway, F. D., D.Sc. Lond., Ph.D. Münich, M.A., F.R.S., *Supernumerary Fellow.*
*Elton of Headington, Lord Godfrey, M.A. (*Mod. Hist.*).
*House, H. W., D.S.O., M.C., M.A., *Senr. Tutor* (*Mod. Langs.*).
Love, A. E. H., M.A., D.Sc. Ox. and Zür., F.R.S., *Sedleian Prof. of Nat. Philos.*
Fiedler, H. G., M.V.O., Ph.D. Leipz., M.A., *Supernumerary Fellow.*
McElroy, R. McN., M.A., D.Litt., *Harmsworth Prof. of American Hist.*
Lobel, E., M.A., *Supernumerary Fellow, U. Reader* (*Papyrol.*).
*Jones, J. Walter, LL.M. Camb., M.A., *Tutor, U. Lectr.* (*Law*).
*Carter, C. W., M.A., B.M., *Tutor* (*Physiol.*), *U. Lectr. and Demr.* (*Bio-Chem.*).
Gore, C. H., O.B.E., M.A., J.P., *Domestic Bursar.*
*Wright, T. E., M.A., *Tutor* (*Classics*).
Cripps, Hon. A. H. S., M.A., *Estates Bursar.*
*Ratcliff, Rev. E. C., M.A. (*Theol.*), *Librarian, U. Lectr.* (*Liturgiol.*).
Gunn, B. G., M.A., *Prof. of Egyptol.*
*Chilver, G. E. F., M.A., D.Phil. (*Anc. Hist.*), *Tutor, Dean.*
*Hitch, C. J., B.A., *Tutor* (*Econ.*).
*Haslam-Jones, U. S., M.A., D.Phil., *Tutor* (*Maths.*), *Dean of Degrees.*
*Baker, W., D.Sc. Manc., M.A. (*Chem.*), *U. Lectr. and Demr.* (*Chem.*).
Christelow, A., M.A., *Junr. Research Fellow.*
*Woozley, A. D., M.A. (*Philos.*).
*Prestwich, J. O., B.A. (*Mod. Hist.*).
Abercrombie, M., B.A., *Junr. Research Fellow.*
Brüning, H., M.A., *Supernumerary Fellow, Lectr.* (*Polit. Theory*).
Boyd, J., M.A., B.Litt., *Taylor Prof. of German.*
Bennett, J. A. W., B.A., D.Phil., *Jr. Research Fellow.*

Laming Travelling Fellows

Brimelow, T., B.A.
Selby, R. W.
Parker, G., B.A.
Graham, D. B.
Peck, E. H., B.A.
Thistlethwaite, R., B.A.
Curle, J. N. O., B.A.
Merson, A. L.
Clibborn, D. H.

Lecturers

Brett-Smith, H. F. B., M.A. (*English*), *Reader* (*Engl. Lit.*).
Wilkins, W. H., M.A. (*Bot.*), *U. Lectr. and Demr.* (*Bot.*).
Keeley, T. C., M.A. Wadh., *U. Lectr. and Demr.* (*Physics*).
Moy-Thomas, J. A., M.A. (*Zool.*).
Ettinghausen, W. G., M.A. (*German*).
Harrison, W., M.A. (*Politics*).
Hampshire, S. N., B.A. All S. (*Philos.*).
Russell, P. E. L. R., M.A. (*Spanish*).

* Prælector.

ST. JOHN'S COLLEGE. Founded 1555. Tel. No.: Oxford 3195.

President—Sir Cyril Norwood, D.Litt. Brist., M.A.

Fellows

Douglas, C. G., C.M.G., M.C., B.Sc., D.M., F.R.S., *Tutor, Lectr.* (*Nat. Sc.*), *Reader, U. Lectr. and Demr.* (*Genl. Metab.*).

Poole, A. L., M.A., *Sr. Tutor, Lectr.* (*Mod. Hist.*).

Troup, R. S., C.M.G., C.I.E., M.A., D.Sc., F.R.S., *Prof. of Forestry.*

Costin, W. C., M.C., M.A., *Tutor, Lectr.* (*Mod. Hist.*).

Hart-Synnot, R. V. O., D.S.O., O.B.E., B.Sc. Lond., M.A., *Bursar.*

Mabbott, J. D., B.Litt., M.A., *Vice-President, Tutor, Lectr.* (*Philos.*), *Librarian, U. Lectr.* (*Philos.*).

Watson, J. A. S., M.C., M.A., *Sibthorpian Prof. of Rural Econ.*

Slade, E., M.A., *Tutor, Sr. Dean of Arts, Lectr.* (*Law*).

Thompson, H. W., Ph.D. Berl., M.A., B.Sc., *Tutor, Jr. Dean of Arts, Lectr.* (*Nat. Sci.*), *U. Lectr. and Demr.* (*Chem.*).

Greenslade. Rev. S. L., M.A., *Reader, Tutor, Lectr.* (*Theol.*), *Librarian.*

Bone, G. D., M.A., *Tutor, Lectr.* (*English*).

Moore, W. G., D.Litt. Strasb., M.A., *Tutor, Lectr.* (*Mod. Langs.*), *U. Lectr.* (*French*).

Roberts, C. H., M.A., *Snr. Research Fellow, U. Lectr.* (*Papyrol.*).

Sherwin-White, A. N., M.A., *Lectr.* (*Anc. Hist.*).

Gibb, H. A. R., M.A. Edin., Lond., Ox., *Laudian Prof. of Arabic.*

Other Lecturers

Newboult, H. O., M.A. Mert. (*Maths.*).

Dowdell, E. G., M.A., D.Phil. (*Econ.*).

Skilbeck, D., M.A., *U. Lectr. and Demr.* (*Rural Econ.*).

Balfour, M. L. G., M.A. (*Politics*).

Grice, H. P., B.A. (*Philos.*).

Meurig-Davies, E. L. B., M.A. (*Classics*).

TRINITY COLLEGE. Founded 1554–1555. Tel. No.: Oxford 3116.

President—J. R. H. Weaver, M.A., University Lecturer in Mediæval Ecclesiastical History.

Fellows

Higham, T. F., M.A., *Vice-President, Sr. Tutor, Lectr.* (*Classics*), *U. Lectr.* (*Gk. and Lat. Lit.*).

Landon, P. A., M.C., M.A., *Tutor, Lectr.* (*Jurispr.*), *Domestic Bursar, U. Lectr.* (*Law*).

Liddell, E. G. T., D.M., *Research Fellow and U. Lectr. and Demr.* (*Physiol.*).

Peters, R. A., M.C., M.A., F.R.S., *Whitley Prof. of Biochem.*

Hall, R. L., M.A., *Tutor, Lectr.* (*Econ.*), *Estates Bursar, U. Lectr.* (*Econ. Sci.*).

Syme, R., M.A., *Tutor, Lectr. and U. Lectr.* (*Anc. Hist.*), *Sr. Dean.*

Ewert, A., M.A., *Prof. of Romance Langs.*

McWatters, Sir Arthur C., C.I.E., M.A., *Secy. to Curators, Univ. Chest.*

Wernham, R. B., M.A., *Lectr.* (*Mod. Hist.*).

Farrer, Rev. A. M., M.A., *Chaplain and Lectr.*

Lambert, J. D., M.A., *Lectr.* (*Nat. Sci.*), *Jr. Dean.*

Peck, A. D., B.A., *Lectr.* (*Philos.*).

Lecturer

Thompson, J. H. C., M.A., D.Phil. Wad. (*Maths.*).

UNIVERSITY COLLEGE. Founded 1249. Tel. No.: Oxford 2228.

Master—Sir William H. Beveridge, K.C.B., LL.D. Aberd., Chic. and Paris, D.Sc. (Econ.) Lond., M.A., B.C.L., F.B.A.

Fellows

*Farquharson, A. S. L., C.B.E., M.A., O.Lég. d'H., O.A., Tutor (*Logic*), *Dean of Degrees, Registrar.*

*Carritt, E. F., M.A. (*Philos.*), *Librarian, U. Lectr.* (*Philos.*).

*Ainley-Walker, E. W., D.M., D.Sc., *Tutor* (*Nat. Philos.*).

*Stevenson, G. H., M.A., *Senr. Tutor* (*Anc. Hist.*).

Leys, K. K. M., M.A., *Tutor* (*Mod. Hist.*).

*Keir, D. L., M.A.

*Bowen, E. J., M.A., F.R.S., *U. Lectr. and Demr.* (*Chem.*).

Cole, G. D. H., M.A., *Lectr., U. Reader* (*Econ.*).

Gardner, A. D., D.M., M.A., *Prof. in Bacteriology.*

*Maud, J. P. R., M.A. (*Politics*), *Dean* (to 1.10.39).

Goodhart, A. L., M.A., LL.D. Camb., D.C.L., O.A., *Prof. of Jurispr.*

*Wild, Rev. J. H. S., M.A. (*Theol.*), *Chaplain, Domestic Bursar, Jr. Dean.*

*Wells, A. F., M.A. (*Classics*), *Secy.*

*Holdsworth, R. W. G., M.A. (*Jurispr.*), *Dean of the Hall.*

Douglas, J. A., M.A., D.Sc., *Prof. of Geol.*

Thompson, R. H. S., M.A., B.Sc., B.M.

Dakin, A. N., M.A., *Lady Wallis Budge Fellow in Egyptology.*

Wilson, J. H., B.A., *Jr. Research Fellow.*

Henley, W. E., B.M., *Radcliffe Travelling Fellow.*

Other Lecturers and Asst. Lectrs.

Morison, C. G. T., M.A. Ch. Ch. (*Rural Ec.*), *U. Reader* (*Soil Sci.*).

Lewis, C. S., M.A. Magd. (*Engl. Lit.*), *U. Lectr.* (*English*).

Chalk, L., M.A., D.Phil., *U. Demr.* (*Forestry*).

Wilkins, W. H., M.A., D.Phil., *U. Lectr. and Demr.* (*Bot.*).

Ford, E. B., M.A., B.Sc. (*Zool.*), *U. Lectr. and Demr.* (*Zool. and Comp. Anat.*).

Sandford, K. S., M.A., D.Phil., D.Sc., *U. Lectr. and Demr.* (*Geol.*).

Macdonald, I., B.A. (*French*).

Thompson, J. H. C., M.A., D.Phil. Wadh. (*Maths.*).

Kuhn, H. G. (*Physics*).

* Prælector.

WADHAM COLLEGE. Founded 1610. Tel. No.: Oxford 4169.

Warden—C. M. Bowra, M.A., D.Litt., F.B.A., University Lecturer in Greek Literature.

Fellows

Wade-Gery, H. T., M.C., M.A., *Sub-Warden, Tutor* (*Classics*).

Lindemann, F. A., Ph.D. Berl., M.A., F.R.S., *Prof. of Exp. Philos.*

Lennard, R. V., M.A., *Tutor* (*Hist.*), *U. Reader* (*Econ. Hist.*).

Keeley, T. C., M.A., *Tutor, U. Lectr. and Demr.* (*Physics*).

Hart, W. O., B.C.L., M.A., *Tutor, U. Lectr.* (*Law*), *Bursar.*

Bretherton, R. F., M.A., *Tutor* (*Econ. and Mod. Hist.*), *Librarian, U. Research Lectr.* (*Pub. Finance*).

Milne, E. A., M.B.E., M.Sc. Manc., D.Sc. Amsterdam, M.A., F.R.S., *Rouse Ball Prof. of Maths.*

Gallie, I., M.A., *Lectr.* (*Philos.*), *Dean.*

Deakin, F. W. D., B.A., *Lectr.* (*Mod. Hist.*).

Thompson, J. H. C., M.A., D.Phil., *Lectr.* (*Maths.*).

Other Lecturer

Berthon, H. E., M.V.O., O.A., M.A. (*French*).

WORCESTER COLLEGE. Founded 1714. Tel. No.: Oxford 2515.

Provost—Rev. F. J. Lys, M.A., D.C.L.

Fellows

Roberts, P. E., M.A., *Vice-Provost, Tutor, Lectr.* (*Mod. Hist.*).
Wilkinson, C. H., M.C., C.G., M.A., *Dean, Lectr.* (*Engl. Lit.*), *Librarian.*
Pickard-Cambridge, W. A., M.A., *Tutor, Lectr.* (*Classics*).
Somerset, H. V. F., M.A., *Asst. Tutor, Lectr.* (*Mod. Hist.*).
Bryan-Brown, A. N., M.A., *Asst. Tutor, Lectr.* (*Classics*).
Braunholtz, G. E. K., M.A., *Prof. of Compar. Philol.*
Parker, J. L., M.A., *Supernumerary.*
Milburn, Rev. R. L. P., M.A. Camb. and Ox., *Jr. Bursar, Chaplain, Lectr.* (*Theol.*).
Brown, A. B., B.C.L., M.A., *Lectr.* (*Law*).

Other Lecturer

Dowdell, E. G., M.A., D.Phil. Joh. (*Econ.*).

Laycock Student of Egyptology

Macadam, F. L., B.A., D.Phil.

ST. EDMUND HALL. Founded *c.* 1238. Tel. No.: Oxford 3574.

Principal and Bursar—A. B. Emden, M.A.

Tutors

Kelly, Rev. J. N. D., M.A., *Vice-Principal, Tutor* (*Theol. and Philos.*).
Brewis, G. R., M.A., *Senior Tutor.*
Fletcher, Rev. R. F. W., M.A., *Tutor* (*Engl. Lang. and Lit.*).
Hunt, H. J., M.A., D.Phil., *Tutor* (*French*), *U. Lectr.* (*French Hist.*).
Irving, H. M. N. H., M.A., D.Phil. *Tutor* (*Nat. Sci.*).
Ramsay, G. D., M.A., *Tutor* (*Mod. Hist.*).

Lecturers

Tylor, T. H., M.A., B.C.L. Ball. (*Jurispr.*).
Leach, E. H., M.A., B.Sc. (*Med.*).
Pusey, H. K., M.A. (*Zool.*), *U. Lectr. and Demr.* (*Zool. and Comp. Anat.*).

KEBLE COLLEGE. Founded 1870. Tel. No.: Oxford 3157.

Warden—Rev. B. J. Kidd, D.D.

Fellows

Jolliffe, J. E. A., M.A., *Sub-Warden, U. Lectr.* (*Med. Engl. Hist.*).
Milman, Lt.-Col. O. R. E., R.A., D.S.O., M.A., *Bursar.*
Rice-Oxley, L., M.A., *Librarian.*
Parkes, G. D., B.Sc., M.A., D.Phil.
Hugh-Jones, E. M., M.A., *Dean of Degrees.*
Carpenter, Rev. H. J., M.A., *Pringle Stuart Lectr.*
Meiggs, R., M.A., *Dean.*
Davidge, C. V., B.C.L., M.A.
Dickens, A. G., M.A.
MacKinnon, D. M., B.A.

Chaplain

Blockley, Rev. T. T., M.A.

ST. CATHERINE'S SOCIETY (*Non-Collegiate Students*). Tel. No.: Oxford 3527.

Censor—Rev. V. J. K. Brook, M.A.

Tutors and Lecturers

Kendrew, W. G., M.A. (*Classics*), *Dean.*
Barber, E. A., M.A. Exe. (*Classics*).
Brook, Rev. V. J. K., M.A. (*Theol.*), *Censor.*
Davies, Rev. R. T., M.A. (*Mod. Hist.*), *Dean of Degrees.*
Ettinghausen, W. G., M.A. (*German*).
Fisher, R. B., M.A., B.Sc. Joh. (*Physiol.*).
Garabedian, D., M.A. (*French*).
Brewer, F. M., M.A., B.Sc. Linc. (*Chem.*).
Horwood, F. C., M.A. (*English*).
Hugh-Jones, E. M., M.A. Keble (*Econ.*).
Tylor, T. H., M.A., B.C.L. Ball. (*Law*).

Permanent Private Halls

CAMPION HALL. (For members of the Society of Jesus.)
Tel. No.: Oxford 4342.

Master—Rev. M. C. D'Arcy, M.A.

Stratton, Rev. J., *Bursar, Lectr.* (*Philos.*).

Lecturers and Tutors

Walker, Rev. L. J., M.A., *Dean and Sr. Tutor.*
O'Hea, Rev. L., M.A.
Rogers, Rev. J. F., M.A.

ST. BENET'S HALL. (For members of the English Benedictine Abbey of Ampleforth, Yorkshire.)
Tel. No.: Oxford 4422.

Master—Very Rev. P. J. McCann, M.A.

ST. PETER'S HALL. (For members of the Church of England.)
Tel. No.: Oxford 3063.

Master—Rev. C. M. Chavasse, O.B.E., M.C., C.G., M.A.

Houghton, Rev. R. E. C., M.A., *Snr. Tutor, Stather-Hunt Tutor* (*Engl. Lit.*).
Smith, E. H. F., M.A., *Tutor* (*Hist.*).
Sutton, C. W. H., M.A., *Tutor* (*Philos.*).
Wilkins, W. H., M.A., D.Phil., *Tutor* (*Nat. Sci.*), *U. Lectr. and Demr.* (*Bot.*).
Macdonald, I., B.A. (*French*), *Dean.*
Tinne, C. E., M.A., *Bursar.*
Quinn, Rev. J. E. G., B.A., *Chaplain.*

Lecturers

Chaundy, T. W., M.A., *and U. Lectr.* (*Maths.*).
Fifoot, C. H. S., M.A. (*Jurispr.*), *U. Lectr.* (*Law*).
Greenslade, Rev. S. L., M.A. Joh. (*Theol.*).
Maidment, K. J., M.A. Mert. (*Classics*).
Bostock, J. K., Ph.D. Lond., M.A., B.Litt., *and U. Lectr.* (*German*).

Recognized Societies of Women Students

LADY MARGARET HALL, founded in 1878 and opened in 1879; constituted under a Deed of Trust in 1893, incorporated by Royal Charter, 1926. Tel. No.: Oxford 2214.

Principal—Lynda Grier, M.A.

Tutors

Grier, Lynda, M.A., *Principal* (*Econ.*).
*Skipworth, Margaret G., M.A., *Vice-Principal* (*French*).
*Coate, Mary, M.A. (*Hist.*), *U. Lectr.* (*Mod. Hist.*).
*Everett, Dorothy, M.A. Lond. and Ox. (*Engl. Lang. and Lit.*).
*Dale, A. Marjorie, M.A. (*Classics*), *U. Lectr.* (*Gk. and Lat. Lit.*).
*Sutherland, Mrs. D. Rhoda, M.A. (*French Philol.*).
*Lea, Kathleen M., M.A. (*English*).
Kneale, Mrs. Martha, M.A. (*Philos.*).
Hurnard, Naomi D., M.A., D.Phil. (*Mod. Hist.*).
*Orr Ewing, Jean, M.A., B.M. (*Nat. Sci.*).
*Blochmann, Elisabeth F. E., Ph.D. Göttingen, M.A. (*German*).

Lecturers

Wrinch, Mrs. Dorothy M., D.Sc. Lond. and Ox., M.A., F.R.A.S. (*Maths.*).
*Anson, Christine, M.A., *Hall Secretary and Librarian.*
Ewart, Annette M., *Domestic Bursar.*

Research Fellows

Lodge, Olive, M.A. (*Susette Taylor*).
Leubuscher, Charlotte, D.phil. Berlin.

SOMERVILLE COLLEGE, founded as Somerville Hall in 1879. Tel. No.: Oxford 4195.

Principal—Helen Darbishire, M.A.

*Stonedale, M. Beatrice, *Vice-Principal, Domestic Bursar.*

Tutors

*Lorimer, Hilda L., M.A. (*Classical Archæol.*).
*Farnell, Vera, M.A. (*Mod. Langs.*), *Dean.*
*Sutherland, Lucy S., M.A. (*Econ. Hist.* and *Politics*).
*Lascelles, Mary M., M.A., B.Litt. (*Engl. Lang. and Lit.*).
*Henderson, Mrs. M. Isobel, M.A. (*Anc. Hist.*).
*Starkie, Enid M., D. de l'U. Paris, M.A. (*Mod. Langs.*), *U. Lectr.* (*French*).
*Hartley, Mildred, M.A. Camb. and Ox. (*Classics*).
*Hodgkin, Mrs. Dorothy M., M.A., B.Sc. (*Nat. Science*).
*McKisack, May, M.A., B.Litt. (*Mod. Hist.*).
Blomfield, Joan E., M.A., B.Litt., *Asst. Tutor* (*Engl. Lang.*).

Research Fellows

Lorimer, Hilda L., M.A. (*Lady Carlisle*).
Hackett, Winifred M., B.A. (*Mary Somerville*).

*Beauchamp, Agneta, O.B.E., M.A., *Treasurer and Secretary.*
*Evans, Evangeline, M.A., B.Litt., *Librarian.*

ST. HUGH'S COLLEGE, founded as St. Hugh's Hall in 1886, was incorporated under Royal Charter in 1926. Tel. No.: Oxford 4182.

Principal—Barbara E. Gwyer, M.A.

Research Fellows

Ady, Cecilia M., M.A.
Perham, Margery P., M.A.

Tutors

*Francis, Elizabeth A., M.A. Lond. and Ox. (*French*).

* Official Fellow.

*Seaton, Mary E., M.A. Lond. and Ox., *and U. Lectr.* (*Engl. Lit*).
*Proctor, Evelyn E. S., M.A. (*Hist.*), *U. Lectr.* (*Med. Europ. Hist.*).
*Glover, Mary R., M.A. (*Philos.*).
*Clarke, Mrs. D. E. Martin, M.A. Camb. and Ox. (*Engl. Lang.*), *Vice-Principal.*
*Headlam-Morley, Agnes, M.A., B.Litt. (*Politics and Econ.*).
*Gray, Dorothea H. F., M.A. (*Classics*).
*Bickley, Olga D., D. in Litt. Genoa, M.A., *Lectr.* (*Italian*).
Adam, Madge G., B.A., *Asst. Tutor.*
Busbridge, Ida W., D.Phil., *Lectr.* (*Maths.*).
*Thorneycroft, Gertrude, B.A. Birm., M.A., *Bursar.*
Hesketh-Williams, Philippa K., B.A., F.L.A., *Librarian.*

* Official Fellow.

ST. HILDA'S COLLEGE, founded in 1893 by Miss Dorothea Beale, sometime Principal of Cheltenham Ladies' Coll. Tel. No.: Oxford 2739.

Principal—Julia de L. Mann, M.A.

Official Fellows

Rooke, Eleanor W., M.A., *Vice-Principal* (*Engl. Lit.*).
Keith, Christina, M.A. Camb., Edin., Ox. (*Classics*).
Leys, Mrs. Agnes M., M.A. Manc. and Ox. (*Mod. Hist.*).
Chesney, Kathleen, M.A., D.Phil., *and U. Lectr.* (*French*).
Whitelock, Dorothy, M.A. Camb. and Ox. (*Engl. Lang.*).
Milroy, Mrs. Lucy, B.A. Lond., M.A., *Bursar.*

Research Fellow

Major, Kathleen, M.A., B.Litt.

Tutor

Cattle, Margaret, M.A., D.Phil. (*Nat. Sci.*).

Lecturers

Wrinch, Mrs. Dorothy M., D.Sc. Lond. and Ox., M.A., F.R.A.S. (*Maths.*).
Toynbee, Margaret R., M.A. (*Mod. Hist.*).
Watling, Mary I., M.A. (*French*).
Crowe, Sibyl E. (*Politics*).
MacDonald, Margaret, B.A., Ph.D. Lond., M.A., *Librarian.*

SOCIETY OF OXFORD HOME-STUDENTS, founded in 1879. Tel. No.: Oxford 2880. The Governing Body is the Univ. Delegacy of Home-Students.

Principal—Grace E. Hadow, M.A., 1 Jowett Walk, Oxford.

Tutors

Butler, Christina V., M.A. (*Economics*).
Butler, Ruth F., M.A., *Dean of Degrees, Sr. Tutor* (*Mod. Hist.*).
Deneke, Helena C., M.A. (*German*).
Griffiths, Mary E.
Hugon, Marianne C. G., M.A. (*French*).
Leys, Mary D. R., M.A. (*Mod. Hist.*), *Vice-Principal.*
Morrison, Christine L., M.A. (*English*).
Orr-Ewing, Jean, B.M., M.A. (*Nat. Sci.*).
Poole, Dorothy J. L., M.A. (*Classics*).
Reeves, Marjorie E., B.A. (*Mod. Hist.*).
Williams, Ivy, D.C.L. (*Jurispr.*).

Lecturers

Huntington, Alice M., M.A. (*Italian*).
Rhys, Olwen, M.A. (*Old French*).
Wrinch, Mrs. Dorothy M., D.Sc. Lond. and Ox., M.A., F.R.A.S. (*Maths.*).

The students keep statutable residence under conditions approved for them by the Delegates of Lodgings. They may reside in their own homes or in houses or Hostels approved for them. There are two Hostels maintained by

Religious Orders: S. Frideswide's, Cherwell Edge (Roman Catholic) and Springfield S. Mary (Anglican). Students over 25 yrs. of age are permitted to live in lodgings.

GENERAL INFORMATION

CONSTITUTION. The *Congregation of the University* consists mainly of the teaching and administrative elements in the Univ. and Colleges. It is the principal legislative body in the Univ. and, subject to the postponing power of Convocation explained below, can adopt, reject, or amend legislative proposals submitted by the Hebdomadal Council. *Convocation*, a larger body consisting of all Masters of Arts and Doctors of the Faculties of Divinity, Civil Law, and Medicine, who have their names on the Univ. books, has the power of postponing, but not of rejecting or amending, Statutes or Decrees which have been passed by the vote of less than two-thirds of the members of Congregation present and voting. It also confers honorary degrees and degrees granted by Decree or Diploma. It sanctions petitions to Parliament, and authorizes the affixing of the Univ. seal when necessary. The *Hebdomadal Council* consists of the Chancellor, Vice-Chancellor, immediate ex-Vice-Chancellor (for a certain period after the expiry of his term of office), the Proctors, and 18 members elected by Congregation. It takes the initiative in all legislation of the Univ. and forms the central administrative body. Other important bodies, endowed with considerable powers and responsibilities, are the *General Board of the Faculties* and the *Curators of the University Chest.*

The Chancellor, elected for life by Convocation, is a non-resident Officer. The executive power is chiefly in the hands of his Deputy, the Vice-Chancellor, who is annually nominated by him from among the Heads of Colleges, and the Proctors annually elected by the Colleges and Halls in rotation.

The Colleges are corporate bodies distinct from the Univ. They manage their own property, and elect their own officers; and the Proctors have no power within their walls. Their Statutes, however, render them subject to certain Univ. Statutes which deal, among other things, with reservation of a proportion of Fellowships for Univ. teachers and officers, the assignment of Fellowships to University Professorships, the admission of undergraduates, contributions for Univ. purposes, the presentation and audit of accounts, and the special examination of catering accounts. The relation between the Univ. and the Colleges is intimate. The great majority of the members of the Univ. belong to the Colleges, and all who belong to the various Colleges are at the same time members of the Univ. Teaching is given partly by Univ. Profs., Readers, Lecturers, and Demonstrators, partly by the more numerous body of College Tutors and Lectrs.

Entrance scholarships (£100) and exhibitions (£40-£80) are awarded by the various Colleges. Their actual value, in the large majority of cases, is £30 a year (or its equivalent) but a scholar or exhibitioner, after election, may be granted an additional sum not exceeding the advertised maximum of his award if he supplies satisfactory evidence that he is in need of further assistance.

Under the Universities of Oxford and Cambridge Act, 1923, which set up a Statutory Commission for Oxford, new Statutes were made for the University and for the Colleges. These Statutes were laid before Parliament and received the approval of the King in Council. A summary of the most noteworthy changes embodied in them, prepared by Sir Henry Sharp, K.C.I.E., the Secretary to the Commission, will be found in the *Yearbook* for 1929, pp. 221 and 222.

FACULTIES. Theol., Law, Med., Literæ Humaniores, Mod. Hist., Engl. Lang. and Lit., Med. and Mod. Langs., Oriental Studies, Phys. Sciences (includ-

ing Maths.), Biol. Sciences, Social Studies, Anthropology and Geography. There is a Board of Studies for Music.

ADMISSION. *See* App. I.

ADMISSION OF NON-MEMBERS OF THE UNIVERSITY TO LECTURES. Admission to lectures in the Schools (but not to classes, seminars, or informal instruction) is granted on certain conditions to persons who are not members of the University on payment of £5 a Term, or, if admission to lectures in one Faculty only is desired, of £3 a Term, or, where special privileges have been granted, without fee.

Fees are to be paid at the Office of the University Chest, Clarendon Building, Broad Street. Other enquiries should be made of the Clerk of the Schools at the Examination Schools.

Non-members of the Univ. may attend lectures and classes in Mod. Foreign Langs. on payment of fees varying from 10s. to 15s. per Term for one hour a week. Application should be made to the Clerk of the Curators, Taylor Institution.

THE ADVISER OF OVERSEAS STUDENTS (H. S. Williamson, M.A. Ch.Ch., Indian Institute) will advise applicants from the Dominions and Colonies and foreign countries (other than Rhodes Scholars).

The Secretary to the Delegacy for Oriental Students (H. S. Williamson, M.A., Indian Institute) will advise Indian and other Oriental Students, who should apply for admission through him, but they are recommended to consult the Secy. of the Advisory Committee of their own Province in the first instance. *See also* p. 708.

INCORPORATION. Members of the Univs. of Cambridge and Dublin can be, under certain conditions, "incorporated" into this Univ., *i.e.*, admitted to the status and degree held in their own Univ. Notice of intention to incorporate as an undergraduate must be sent to the Registrar through the Head of a Coll., Hall, or Society. The privileges of incorporation as a graduate are limited to B.A., M.A., Litt.D., B.D., D.D., and D.Sc. of those Univs., LL.B., LL.D., M.B., M.D., M.Chir., Ph.D. of Cambridge. Graduates in Law of Cambridge shall when incorporated become B.C.L. or D.C.L., and Litt.D.'s of Dublin shall become D.Litt. of Oxford. Any applicant for incorporation must have kept by residence at his Univ. before taking his degree the same number of terms that he would have been required to keep at Oxford for the corresponding degree. While an undergraduate is allowed to incorporate as a matter of course, a graduate must first satisfy the Hebdomadal Council that there are adequate reasons.

In 1910 a Delegacy for WOMEN STUDENTS was constituted, and provision made for recognition by the Univ. of Societies for their reception for academical study, students on the books of such Recognized Societies being accorded a privileged status. Under the provisions of a Statute approved by Convocation on May 11, 1920, which came into force on Oct. 7, 1920, women may be matriculated and admitted to degrees in the Univ. In that year the Delegacy for Women Students was abolished. Previous to matricn. a woman must have been admitted as a member of one of the 5 Societies of Women Students. A woman may be admitted to *Responsions* before matricn. provided her name is sent in to the Asst. Registrar by the Head or a Tutor of a Soc. to which she *bona fide* desires admission. Women members of the Univ. are admitted to all degrees under the same conditions as those prescribed for men as regards standing, examns., course of study, exercises, and fees, and under analogous conditions as regards residence. A Women Students' Property

Committee administers all property vested in the Univ. for the benefit of women members of the Univ. generally, and in particular the Nettleship Library and Bertha Johnson Loan Fund.

The number of resident undergraduate members of the Society of Home-Students (who keep statutable residence in houses approved by the Delegates for Lodgings) is limited at present to 220, exclusive of "Advanced students," and of an additional number not exceeding 5 in any term as may for exceptional reasons be given permission to reside. Preference is given to those applicants for admission to the Society whose homes are in Oxford.

The number of undergraduates in residence at the other Societies of Women Students are also limited by Statute to 160 in the cases of Lady Margaret Hall and St. Hugh's Coll., and to 150 in the cases of Somerville Coll. and St. Hilda's Coll.

TERMS. The Academical year, which begins in Oct. and ends in July, consists of 3 terms, Michaelmas, Hilary, and Trinity, beginning, respectively, on Oct. 1, Jan. 10, and the Wednesday after Easter Day, and ending Dec. 17, the day before Palm Sunday, and the Saturday after the first Tuesday in July. Residence within the walls of a College or Hall, or in licensed lodgings,* during a certain number of terms, usually 9, and never less than 6, is a condition of admission to any degree. Full terms begin: 1938–39—Oct. 9, Jan. 15, April 23; 1939–40—Oct. 15, Jan. 14, April 21; end: 1938–39—Dec. 3, March 11, June 17; 1939–40—Dec. 9, March 9, June 15.

DEGREES. B.A., M.A., B.Litt., D.Litt.; B.Sc., D.Sc.; D.Phil.; B.D., D.D.; B.C.L., D.C.L.; B.M., B.Ch., M.Ch., D.M.; B.Mus., D.Mus.

The degrees which are open to graduate students of other Univs. who are qualified for matricn. at Oxford are those of B.A., B.Litt., B.Sc., D.Phil., B.C.L., and B.D.

ARTS. Examns. in Arts, more usually called "Schools," are sharply divided into Pass and Honour examns.; in the former there is but one standard, in the latter successful candidates are distributed into 3 or 4 classes. No one is admitted to a place in the Class Lists who has exceeded a certain number of terms reckoned from Matricn. No conditions of residence are attached by the Univ. to either Pass or Honour examns.; it is simply for the attainment of the degree of B.A. that residence is obligatory. Every Coll., Hall, and Society, however, has its own rules with regard to both residence and the entry for examns. A candidate for the degree of B.A. must (1) reside at the Univ. as a matriculated member during 9 terms, unless he is privileged as a member of another Univ. or as a "Service" Student; (2) pass or obtain Honours in the following examns., namely:

(*a*) *Responsions.* This is the Entrance Examination to the University. It must be passed, or some examn. accepted as equivalent to it, before matriculation. Names of candidates must be entered through an officer of the Society to which they intend to belong. *See* Appendix I.

(*b*) The *1st Public Examn.* This consists of (1) Honour Classical Moderations, (2) Hon. Math. Modns., (3) Hon. Sci. Modns., (4) Pass Modns., (5) Law Modns., (6) Prelim. Nat. Sci., (7) Prelim. Agric., Forestry, and Geography. In order to pass the Examn. a candidate must pass in one of these subjects.

(*c*) The *2nd Public Examn.* This consists of (*a*) a Pass School and (*b*) an Honour School. (*a*) Contains a large variety of subjects, and candidates taking it are required to pass in 3 of these, of which one must be a language-subject other than English. There is also a homogeneous course in *Forestry*.

* In special circumstances leave to reside in a house which has not been licensed may sometimes be obtained.

(*b*) Includes the following, a class in any one of which is sufficient: Literæ Humaniores (Philos. and Ancient Hist.); Maths.; Nat. Science (Phys., Chem., Physiol., Zool., Bot., Geol., Astron., or Engin.); Jurispr.; Mod. Hist.; Theol.; Oriental Studies (Sanskrit, Arabic, Hebrew, Persian, Egyptian or Chinese); Engl. Lang. and Lit.; Mod. Langs. (French, Ger., Ital., Span., Russ., or Mediæval and Mod. Greek); Philos., Politics, and Econ. (Modern Greats); Geog.; Agric.

Under certain conditions, members of other Univs. and officers not under 21 yrs. of age who have held for not less than 3 yrs. a Commission in H.M. Regular Forces, and been seconded or specially relieved from active duty by the Admiralty, War Office, Air Ministry, or India Office for the purpose of attending an academic course of not less than 2 yrs., may be admitted to the status of "Senior Student" and "Service Student" respectively, and obtain exemption from Responsions, and, under further conditions, from the 1st Public examn., as well as a remission of 3 terms of the necessary residence (v. App. I). Analogous concessions are made in favour of Probationers for Forest Services in the British Empire who have obtained an approved degree at an approved Univ. and been admitted to the status of "Imperial Forest Service Student."

ADVANCED STUDY AND RESEARCH. The DEGREES B.LITT. and B.SC., instituted in 1895 in order to encourage special study and research, are granted upon the satisfactory completion of an approved course of special study or research pursued under supervision and for the most part at Oxford and of at least 6 terms' residence. Application to enter upon such a course may be made by any person who produces sufficient evidence of his ability and (1) is a member of the Univ. who has passed the examns. for the degree of B.A., or (2) has taken an approved degree at an approved Univ., or (3)—for the B.Litt.—has obtained an Oxford diploma with distinction, or is held by the Board of the Faculty to be fully qualified to engage in research. Applications must in all cases be made to the Secy. of Faculties through an officer of the Society to which the candidate belongs or desires to belong. Residence as a member of the Univ. for 6 terms is a necessary condition for either degree. A candidate for the B.Litt. must first undergo a course of training in research methods and then do a special piece of research work and write a thesis, and may be required to pass a written examn. For the B.Sc., which is confined to the Faculties of Science, Medicine, and Anthropology and Geography, no probationary period is prescribed.

Of a similar nature, but of a much higher standard, is the degree of DOCTOR OF PHILOSOPHY instituted in 1918 (v. p. 13).

The higher degrees, D.LITT. and D.SC., instituted in 1900, are awarded to graduates of Oxford for published work of outstanding merit.

THEOLOGY. The B.D. degree is open to candidates of over 26 yrs. of age who have passed a Qualifying examn. in Christian Theology, pursued a course of study therein extending over 6 terms, resided for 6 terms, and submitted a thesis of sufficient merit in some branch of the subject. No candidate may present a thesis until he has passed the Qualifying examn., which is open to Oxford M.A.'s, to persons who have, not less than 5 terms previously, passed all examns. for the Oxford B.A., and, under certain conditions, graduates of other Univs. First-class hons. in School of Theol. exempts from this examn.

The degree of D.D. is open to those who have been admitted to the Oxford degree of B.D., subject to certain conditions of standing, provided they have submitted a thesis, or published work, of sufficient merit in some branch of Christian Theology.

LAW. The examn. for the B.C.L. degree is open either (1) to B.A.'s of the Univ. or (2) under certain conditions (including residence for 6 terms) to graduates in Arts, Philos., Science, or Law of other Univs. The subjects are Jurispr., Roman, Engl., Roman-Dutch, and Internat. Law.

MEDICINE. The B.M. degree is open only to B.A.'s of the Univ. who have passed certain examns. in Med. and Nat. Science. The total period of study for the degree (including the scientific subjects studied in the Arts course) is generally about 7 or 8 yrs., of which 2 or 3 are usually spent in London in preparation for the more strictly professional subjects of the 2nd B.M. examn. The M.Ch. degree is open to candidates who have passed all the examns. for the B.M. and B.Ch., and either are members of the Surgical staff of a recognized hospital or have acted in such a hospital as Dresser or House Surgeon for 6 months. A candidate for the D.M. must be a B.M., and have entered on the 30th term from matricn. and had his name on the books of some Coll. or Hall or Society for 20 terms.

Senior Students may be exempted from the preliminary examn. in Physics, Chemistry, Zoology, and Botany, in consideration of equivalent examns. passed at their previous Universities.

MUSIC. The degree of B.Mus. is open to candidates who *either* (*a*) have been admitted to the degree of B.A. *or* (*b*) have (1) passed Responsions or an equivalent Examn., (2) pursued at the Univ. a course of musical study extending over at least 2 yrs. All candidates must also pass 2 examns. in Music (and compose a Musical Exercise) under conditions laid down by Statute. Residence for 6 terms is required, and the examn. may be completed in 6 terms as in the case of the Degrees of B.Litt. and B.Sc. A B.Mus. may qualify for the degree of D.Mus. by submitting a musical composition for approval and passing a further examn. in Music, but cannot submit a composition until the 9th term after his admission to the Baccalaureate.

DIPLOMAS. Most of these are open to persons who are not members of the Univ. Minimum courses and addresses of Secretaries from whom particulars can be obtained:

Geography, 1 yr., The Director, School of Geog., Mansfield Rd.

Education, 1 yr. (or Vacation course, v. *infra*), Director, Department of Education, 15 Norham Gardens.

Economics and Political Science, minimum 1 yr., The Secy., Committee for E., University Registry.

Public and Social Administration, 1 yr. and period of practical work, The Secy., Social Studies Committee, Barnett House.

Anthropology, 1 yr., The Diploma Secy., 1 Jowett Walk.

Forestry, 1 yr., The Professor of F., School of F. Open to graduates of Oxford or other Univs.

Rural Economy, 1 yr., the Professor of R.E., School of R.E.

Classical Archæology, 1 yr., Secy. to Committee on C.A., Ashmolean Museum.

Theology, 1 yr., Secy. of Faculties (open only to members of the University).

Comparative Philology, 1 yr., the Prof. of C.P., Worcester Coll.

Ophthalmology, Dean of the Medical School, University Museum. Open to Registered Medical Practitioners and to approved Bachelors and Doctors of Med. of Univs. outside the U.K.

Certificates: General and Regional Geog. (minimum course, 1 term), Director, School of Geog.; Physical or Cultural Anthropology, 3 months, the Diploma Secy., 1 Jowett Walk; Training for Social Work, the Secy., Social Studies Committee, Barnett House. Public Administration, the Secy., Social Studies

Committee, Barnett House. Proficiency in Estate Management, the Professor of R.E., School of R.E.

COMMISSIONS IN BRITISH (REGULAR) OR INDIAN ARMIES (v. Appendix IV. 1). Candidates must have resided for 3 yrs. at the Univ., be over 21 and under 24, be of pure European descent and a British subject, be unmarried, be in possession of a degree, and obtain a satisfactory attachment (4 or 8 weeks) report with a Regular unit. An Honours degree second class entitles the holder to have his name submitted to the War Office for a scholarship of £30 for 3 yrs. on gaining a commission. Antedates of 18 months, subject to the recommendation of the Delegacy for Military Instruction and approval of the War Office, are granted to accepted candidates. Office of the Secy. to the Delegacy for Military Instruction—H.Q.O.T.C., Manor Road.

AVIATION. Membership of the University Air Squadron is granted by selection to members of the University after interview by a Selection Committee. All candidates must obtain parental and College permission to join, and must be up to the full medical standard of the Royal Air Force. There are no fees for entrance, medical examination, or flying instruction, but a small annual subscription is imposed for Club purposes. Every member undertakes to obtain the Squadron Certificate of Proficiency by the end of his second year in the Squadron. This involves passing an examn. in four ground subjects, and it qualifies the holder to fly solo in term time. The Squadron is limited to 75 members, and in consequence there is great competition for membership. Students from overseas are advised to bring parental consent to join the Squadron with them before they sail for England.

INDIAN CIVIL SERVICE. Studies of selected candidates are superintended by a Delegacy.

The DEPARTMENT OF EDUCATION (address—15 Norham Gardens), established in 1919, is under the general direction of a Delegacy. For staff, see under Education. For the Univ. Dipl. in Educn. there is a 1 yr. postgrad. course, theoretical and practical. Undergraduates are admissible on certain conditions. One or, under certain conditions, two terms may be spent in practical work at a school or, by special permission, abroad at an approved European Univ. Students are also accepted for a 4 yrs.' course (v. Appendix IV. 21).

A *vacation course* of 4 weeks (fee £7 : 10s.) is held from time to time in Aug. and will again be held in 1940. The whole or part of this course is open without restriction to men and women, and University graduates with not less than 7 yrs.' full-time experience as teachers in schools approved by the Delegacy may, under certain conditions, take the Examn. for the Univ. Diploma in Education after attending the full Vacation Course of four weeks.

SCHOLARSHIPS AND FELLOWSHIPS. College Entrance scholarships are very numerous and valuable. The Univ. scholarships and fellowships are usually open only to members of specified standing. Of those open to graduates, 16, of the aggregate value of £1130 p.a., are for Engl., Greek, and Latin; 1 (£100) is for Ment. and Mor. Philos.; 2 (£80) for Maths.; 8 (£1340) for Med. and Nat. Science; 4 (£440) for Law; 3 (£300) for Theol.; 13 (£760) for Oriental Studies. The Univ. offers a number of *Research Scholarships and Studentships*, *e.g.* a Biological scholarship (annually, £200 for 1 yr.) tenable at the Zoological Institute, Naples; the George Webb Medley Scholarships (2 annually, £80 to £300 p.a. for 2 yrs., renewable for not more than 3 yrs.), for Economics and Polit. Sci.; the Scott Scholarships (2 annually, *c.* £95 for 2 yrs.), "for the

furtherance of physical science"; the Beit Senior Research Scholarship (on terms decided by the Bd. of Management of the Beit Fund, up to £250 in any yr.), for Colonial History; the Henry Francis Pelham Studentship (biennially, £100 or less for 1 yr.), tenable at the British School of Archæology at Rome; a Research Studentship (occasionally for 1 yr.), for Greek Lit.; the Bryce Research Studentship (annually, £240 for 1 yr.), for History.

There are also *Travelling Scholarships and Studentships, e.g.* the Derby Scholarship, for classical scholarship (incl. palæography and philos.), offered annually (£200-£300 for 2 yrs., of which at least 8 months must be spent abroad); the Heath Harrison Travelling Scholarships (13 annually, £75 usually for 1 yr.), for study of a modern lang. abroad; the Zaharoff Travelling Scholarships (1 or more annually, £150 for 1 yr.), for promotion of French studies; the de Osma Studentship (annually, the net income from £2110 odd Funding 4 per cent Stock), for not less than 6 weeks' study at the Instituto de Valencia de Don Juan, Madrid; the George Herbert Hunt Travelling Scholarship (every other yr., *c.* £100), for Medicine.

The Colls. have power to elect persons distinguished in Science or Literature to Senior Research Fellowships on condition of prosecuting some definite work; they have also power to elect from time to time Junior Research Fellows for limited periods, usually after examn.

There are certain funds, such as the Craven and Ireland, from which grants for the furtherance of particular studies may be made.

For open post-graduate Scholarships and Fellowships, *see* App. II.

The Rhodes Scholarships were founded in 1902 under the will of the late Cecil John Rhodes. The value of each is £400 a yr., tenable at the Univ. of Oxford, and may be held for 3 yrs. Appointments are made for 2 yrs. in the first instance, and a Scholar wishing to remain for a third year must present a definite plan of study for that period satisfactory to his College and to the Rhodes Trustees.

Rhodes Scholars may, if the conditions are approved by their own College and by the Oxford Secretary to the Rhodes Trustees, either postpone their third year, returning after a period of work in their own countries, or spend their third year in post-graduate work at a Univ. of Gt. Britain, and in special cases at a Univ. on the continent of Europe, in the overseas Dominions, or in the United States, but not in the country of their origin. The conditions of the competition in each country or community are fixed from time to time by the Trustees.

In his will, Mr. Rhodes expressed the wish that "in the election of a student to a Scholarship, regard shall be had to (1) his literary and scholastic attainments; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindliness, unselfishness, and fellowship; and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his schoolmates."

The Dominions and Colonies. An annual Scholarship is assigned to each Province* of the Dominion of Canada; to each State of the Australian Commonwealth; to the Dominion of New Zealand (2); in South Africa to the Province of Natal, the Transvaal, the Orange Free State, the Cape Province, the S.A. College School in Cape Town, the Diocesan College School of Rondebosch, the Boys' High School, Stellenbosch, and the St. Andrew's College School at

* Two each to Quebec and Ontario.

Grahamstown, in alternate years to the Eastern Province, and not more than three annually to Rhodesia. The Colonies of Jamaica, Newfoundland, and Bermuda have each an annual Scholarship. A single Scholarship was for the first time allotted to the Island of Malta in 1921, and is awarded once in 3 yrs.

In founding these Scholarships, Mr. Rhodes stated that he did so because he believed that the education of young Colonists at one of our residential universities will " broaden their view," " instruct them in life and manners," and " instil into their minds the advantage to the Colonies as well as to the United Kingdom of the retention of the unity of the Empire."

United States of America. 4 Scholarships are assigned annually to each of 8 regions, of 6 States each, which are awarded among candidates sent forward from each State in the region. The reason given by Mr. Rhodes for founding the American Scholarships is his " desire to encourage and foster an appreciation of the advantages which I implicitly believe will result from the union of the English-speaking people throughout the world, and to encourage in the students from the U.S. . . . an attachment to the country from which they have sprung, but without I hope withdrawing them or their sympathies from the land of their adoption and birth." *The American Oxonian*, the official magazine of the Alumni Assocn. of American Rhodes Scholars, is published quarterly by George E. Barnes, 6376 City Line Avenue, Philadelphia.

Germany. Two annual German Rhodes Scholarships of £350 a year each are tenable at Oxford for 3 yrs. The reason given by Mr. Rhodes for founding the German Scholarships is " that an understanding between the three great powers will render war impossible and educational relations make the strongest tie."

Number actually in residence, 1937–38 (whole or part), 181 ; (92 from the Brit. Empire, 84 from the U.S.A. and 5 from Germany)—Studying Law, 36 ; Nat. Sc. and Med., 52 ; History, 14 ; Econs. (Dipl., etc.), 7 ; Lit. Hum., 7 ; Eng., 13 ; Maths., 7 ; Phil., Pol. and Econs., 39 ; Mod. Langs., 1 ; Theology, 2 ; other subjects, 3.

Professions followed by Rhodes Scholars since leaving Oxford. Education, 622 ; Law, 421 ; Business, Industry and Mining, 239 ; Govt. Service, 115 ; Medicine, 154 ; Ministry and Social Work, 57 ; Journalism and Publication, 59 ; Engineering, 44 ; Farming, 23 ; Forestry, 16 ; Army, Navy and Air Force, 24 ; Miscellaneous and further Academic Studies, 71 ; unknown or not yet settled, 45.

General. Provision is now made under the Trust for the continuous residence at Oxford of between 190 and 200 scholars. Candidates must be between 19 and 25 years of age and unmarried. They must be citizens of the country from which they come—usually with 5 yrs.' domicile ; and must have at least 2 yrs.' standing at a regular degree-granting College or Univ., except in a few small communities which have no such institution. Detailed information for each country may be obtained from the offices of the Rhodes Trust, Seymour House, Waterloo Place, London, S.W.1.

Secretary to the Rhodes Trustees—The Marquess of Lothian, C.H., Seymour House, Waterloo Place, London, S.W.1. *Local Secretaries* : *Oxford*—Sec. to the Rhodes Trustees and Warden of Rhodes House, C. K. Allen, D.C.L., Rhodes House, Oxford ; *U.S.A.*—President Frank Aydelotte, Swarthmore College, Swarthmore, Pa. ; *Canada*—D. R. Michener, 372 Bay St., Toronto ; *Australia*—J. C. V. Behan, LL.D., Warden's Lodge, Trinity College, Carlton, N.3, Victoria ; *S. Africa*—P. T. Lewis, M.C., K.C., Temple Chambers, Wale St., Cape Town.

The Appointments Committee deals with appointments of all kinds. It has representatives and correspondents in all Colls. Sec. : H. B. Moore,

M.C., M.A. Ednl. Sec., E. A. Greswell, M.A., 36 Beaumont St. Telegrams—Appointments, Oxford. Telephone—3225.

1938, 413 permanent appointments, including: Government, 92; Education, 220; Business and Industrial, 94; Journalistic, Secretarial, etc., 7; Temporary, 80.

WOMEN'S APPOINTMENTS COMMITTEE. Sec., Miss M. C. Robertson, B.A., 41 St. Giles', Oxford. Telephone—2104. Hours, 10-1.

THE BODLEIAN LIBRARY, founded by Sir Thomas Bodley in 1602, which is also the general library of the Univ., contains over 1,500,000 printed books and 40,000 MSS. Persons, other than members of the Univ., are admitted on presenting a recommendation from some one in a responsible position in Oxford or elsewhere, knowing the applicant personally. The *Readers' Manual* (obtainable from the Librarian) contains full information about the contents and catalogues of the Library; the *Visitors' Guide* (on sale at the Library, 3d.) gives a short history and a list of the chief exhibits. The chief books relating to it are: Macray, W. D., *Annals* (Clar. Press, 1890, 25s.); Clark, A., *Guide for Visitors* (Clar. Press, 1906, 1s. 6d.); Gibson, S., *Some Oxford Libraries* (Clar. Press, 1914, 2s. 6d.); Madam, F., *The Bodleian Library* (London, Duckworth, 1919, 2s. 6d.); *The Bodleian Library Record* (5 times p.a., 6d. per number, obtainable from the Libn.).

There are the following dependent libraries of the Bodleian:

The Law Library (law of English-speaking countries) at the Examination Schools.

The Radcliffe Science Library at the Univ. Museum, about 200,000 vols., consisting of books and periodicals on Mathematics, Natural Science and Medicine.

The Indian Institute Library, devoted to Oriental studies. There is also in the Indian Institute a museum illustrating Indian antiquities and Indian life.

Rhodes House Library (history of the British Empire and the U.S.A.).

THE TAYLORIAN LIBRARY (Modern Languages and Literature), 120,000 vols., comprises the chief philological, literary, and historical works of the principal European languages and nearly all respective Reviews, Literary periodicals and publications of Continental Societies of importance.

COLLEGE LIBRARIES. Modern History and Law, at All Souls (The Codrington Library); Political Economy and Science, also at All Souls (The Brand Library). Other important collections include Russian and Slavonic books, at Queen's; History and Literature MSS. of 17th cent., at Worcester; Music and Early Scandinavian collections, at Christ Church. The MSS. in the College Libraries are described in Coxe's Catalogue, published at the Clarendon Press, 1852.

There are also: the Nettleship Library, Woodstock Road (Librarian—Miss M. C. Draper); the English Library (Examination Schools) (Librarian—J. L. N. O'Loughlin, M.A., St. Edmund Hall); a Geographical Library (*c.* 14,000 vols. excluding periodicals) and Maps (*c.* 17,000) at the School of Geography, Mansfield Rd. (Librarian—J. N. L. Baker, M.A., B.Litt. Jesus); and Social Studies Library at Barnett House.

MUSEUMS. *The University Museum* includes collections and laboratories with the following depts.: Med. and Public Health, Human Anat., Pathol., Pharmacol., Chem. (Dyson Perrins Lab. and Old Chem. Dept.), Geol. and Palæontol., Mineral., Engin. Science, Physics, Physiol., Biochem., Zool. and Comparative Anat., Zool. (Lepidoptera collection illustrating mimicry, etc.), Experimental Philos.

The Ashmolean Museum (Keeper—E. T. Leeds, M.A. B.N.C.), contains, in

addition to a Library of Art and Archæology, the Parian and other marbles, Egyptian and Oriental, Classical, Prehistoric, Anglo-Saxon, and local antiquities, 60,000 coins and medals (published catalogue of Mohammedan coins), and a special collection of Drawings and Engravings by Ruskin.

The Museum of the History of Science (Curator—R. W. T. Gunther, M.A. Magd.) in the Old Ashmolean building illustrates the history of scientific studies, especially in Oxford, by contemporary instruments, engravings, and books.

The Pitt-Rivers Museum (Acting Curator—T. K. Penniman, M.A. Trin,) has an anthropological collection illustrating the evolutionary history of material arts.

LABORATORIES: Electrical; Clarendon (chiefly for study and research in Heat, Optics, and Acoustics); Chemistry, Organic and Inorganic (several Colleges have labs. of their own, *e.g.* Ch. Ch.—Analyt. Chem.; Ball. and Trin.—Phys. Chem.; Jes.—Inorganic); Physiology; Biochemistry; Zoology; Entomology, with extensive Collections and Library; Botany (Garden with Collections and Library); Geology (special equipment for study of fossils by serial sections); Mineralogy (special facilities for research in Crystallography); Engineering; Forestry (expl. plantations and forest garden); Human Anatomy; Pathology and Bacteriology; one *Observatory*.

THE IMPERIAL FORESTRY INSTITUTE (Director—J. N. Oliphant, C.M.G., M.A., Dipl. For.) was founded in 1924 as a result of a resolution of the British Empire Forestry Conference held in Canada in 1923. It is at present financed mainly by Colonial Governments, the Forestry Commission, certain Provinces of India and Burma: it provides post-graduate training and refresher courses for forest officers of the Empire and others, undertakes the structural examination and identification of woods and the identification of trees, and carries out research on biological and economic problems bearing on forestry. The Institute is controlled by a Univ. Committee on which the Government Depts. contributing to its support are represented. Address: Sec., Imperial Forestry Institute, Parks Rd., Oxford.

THE SCHOOL OF RURAL ECONOMY is the Department of the University responsible for teaching in Agriculture. There is an *Institute for Research in Agricultural Economics* and an *Institute for Research in Agricultural Engineering*. There is a farm in connexion with the School and the Institutes for demonstration and experimental purposes. The School and the Institutes are mainly financed by grants made by the Ministry of Agric. to the Univ. for this purpose. (*See* App. III. A. I. (*e*), (*g*).)

THE NUFFIELD INSTITUTE FOR MEDICAL RESEARCH, founded 1935. Director—J. A. Gunn, M.D., D.Sc. Edin., M.A., D.M., F.R.C.P. (Nuffield Prof. of Therapeutics). Asst. Director—K. J. Franklin, M.A., D.M. Or. The Institute is housed in the old Radcliffe Observatory which, with its surrounding grounds, was purchased by Lord Nuffield from the Radcliffe Trustees and presented to the Univ. to be converted for its present purpose. It is intended that the work done in the Institute should afford a bridge between the research done in the Univ. pre-clinical laboratories and that done in the Radcliffe Infirmary. At present the laboratory is specially equipped for Experimental Therapeutics and for X-ray Cinematography.

THE INSTITUTE OF STATISTICS, founded 1935, works under the Social Studies Research Committee. It is a centre for statistical research in economics and social studies and for the teaching of statistical methods. It participates in the publication of the "Oxford Economic Papers." The

Institute provides facilities for research : books and periodicals, expert advice in the use of statistical sources, and calculating machines. Director—J. Marschak, M.A. Secretary and Librarian—H. E. Caustin, M.A. Address: 74 High Street.

INSTITUTE OF EXPERIMENTAL PSYCHOLOGY, 34 Banbury Rd., founded 1936. Director—W. Brown, D.Sc. Lond., D.M. Ch. Ch., F.R.C.P. (Wilde Reader in Mental Philos.) ; Asst. Director—W. Stephenson, M.Sc. Durh., Ph.D. Durh. and Lond., M.A., C.C.C.

EDWARD GREY INSTITUTE OF FIELD ORNITHOLOGY, established by Statute, 1938. At present housed at 39 Museum Rd., Oxford. Its function is to carry out research on the numbers, distribution, movements, habits and economic status of British birds ; to collect, coordinate and supply information on these subjects obtained from published sources and field observers, and to publish the results of its work. Director—W. G. Alexander, M.A.

SOCIETIES APPROVED FOR HIGHER STUDY AT OXFORD. The following have been approved as Societies for higher study at Oxford, the members of which may have their names entered in the Univ. Register of Diploma students although they are not members of the Univ. :

Barnett House, 34-35 Beaumont St. (1915). President—The Warden of All Souls. Vice-President—Prof. D. H. Macgregor, M.A.

The Social Studies Committee of Barnett House, which has, for a number of years, been responsible for the operation of the Univ. Social Training Course, is prepared to provide for the tuition and arrangement of work of students, where such provision is not made for them by their own colleges. The cost is at the rate of £6 a term for full-time, and £3 a term for part-time students who propose to take the Diploma course in 2 yrs. Special provision is made for the observational work required in connexion with the subject of Public and Social Administration. A bursary is sometimes offered in reduction of tuition fees. Further particulars from the Secretary for Social Training (Miss C. V. Butler, M.A.).

Catholic Workers' College (1921). Principal—Rev. L. O'Hea, S.J., M.A.

Subject to accommodation being available, any adult working-class student is admitted provided that the fees are guaranteed, the College regulations accepted and references supplied in proof of good character. The Principal must also be satisfied of the candidate's aptitude as a student. Period of residence, 1 or 2 yrs. Fee, £100 p.a., covering board, lodging, lectures and tuition. Particulars of available scholarships may be obtained on application to the Principal.

Ruskin College, Walton St. (1899). Principal—A. Barratt Brown, B.A. Lond., M.A.

A residential college for Adult Education, open on equal terms to men and women students. Foreign students must produce evidence of sufficient knowledge of English to enable them to follow the courses. Fee, £100 p.a., covering board, residence and tuition. Students are also admitted for less than a year ; fee, 2 terms £75, 1 term (of 11 weeks) £40, 1 month £15. A list of scholarships available will be supplied on application to the Secretary.

The OXFORD AND CAMBRIDGE SCHOOLS EXAMN. BOARD, established 1873, examines or inspects and reports on the work of schools which provide education of the highest grade. It also holds yearly examns. and awards certificates—Higher, School and Lower. The two former exempt the holder, under certain conditions, from Responsions and the Previous Examination, the

Matricn. examns. of London and other Univs., and the Preliminary examns. of various professional bodies, etc. The Regulations of the Board are published by the Ox. and Camb. Univ. Presses (post free 1s. 3d.). Secretaries: at Oxford —C. H. Wilkinson, M.A., 74 High St.; at Cambridge—T. G. Bedford, M.A., 10 Trumpington St.

LOCAL EXAMINATIONS are held in July and Dec. at Oxford and elsewhere. Successful candidates in the School Certif. or in the Higher School Certif. Examn. are on certain conditions exempted from Responsions, the Cambridge Previous and various matricn. examns. The Regulations may be obtained from the Secretary of Local Examinations, Merton St. All the examns. are open to persons of both sexes. The Higher School Certif. Examn. is held in July only.

In December 1937 the School Certif. Examn. was held at 209 Centres (of which 9 were overseas) and the Junior Examn. at 52 Centres (of which 6 were overseas). The total number of candidates was 3902, viz. School Certif. 3446, Junior 456.

In July 1938 the Higher School Certif. Examn. was held at 150 Centres, the School Certif. Examn. at 478 Centres (of which 13 were overseas), and the Junior Examn. at 185 Centres (of which 3 were overseas). The total number of candidates was 15,010, viz. Higher School Certif., 770; School Certif., 11,943; Junior, 2297.

EXTRA-MURAL STUDIES. There is a Department for the non-vocational education of adult persons beyond the limits of the Univ. The Delegacy for Extra-mural studies may recommend the admission of adult students to the Univ. without the necessity of passing Responsions. The Delegacy controlling the Dept. has three Committees, one for Univ. Extension Lectures, one for Univ. Tutorial Classes, and one for promoting adult education in Oxon, Berks, and Bucks.

Univ. Extension Lectures. The system begun in Camb. was adopted by Ox. in 1878. During 1937–38, 5208 students attended courses and 6 students were examined. The following certifs. are issued under the sanction of the Delegacy: Terminal, on courses of 10 or 12 lectures; Sessional, on 24; Sessional in Honours, implying distinction and a special essay. Further information can be obtained from the Secy. to the Delegates for Extra-mural Studies, Rewley House, Wellington Square, Oxford (L. K. Hindmarsh, M.A.).

Tutorial Classes are held in working-class districts under the supervision of the Tutorial Classes Committee. Students pledge themselves to a 3 yrs.' course. The classes meet once a week for 2 hrs. from Sept. to April, and each student writes an essay about once a fortnight. The Organizing Secy. is E. S. Cartwright, M.A., Rewley House, Wellington Square, Oxford.

Oxon, Berks and Bucks Committee, formed in 1924 for promoting adult edn. in the villages and small towns of those three counties. In the session 1937–38 there were 72 courses held in 59 centres.

The Oxford Summer Meeting is held biennially, and will take place in August 1939. In addition a Residential Summer Session in Social Studies specially adapted to the needs of postgraduate students from the United States and the British Dominions will be held from 11th July to 18th August 1939. Negotiations have been entered into with some of the leading American Universities for recognition of this course for purposes of "credit." A Vacation Course for foreign students will be held in August 1940.

EXPENSES. "It is not possible to make any general estimate of the cost of a University course, which varies with different Societies and depends upon the student's own means and tastes. It must suffice here to enumerate certain

items common to all undergraduates, and to recommend persons anxious for further details to consult the authorities of the Society which they wish to join. . . . The total cost of living in college might perhaps be estimated at about £60 a term for a man who exercises reasonable care in his expenditure."—Extract from *General Information* pamphlet mentioned in following paragraph. The items specified are:—(1) Annual: Univ. dues, £6; College tuition fee, £24 to £33; room rent, £21 to £24; hire of furniture, £6; College clubs, £6; rates and taxes on the rooms occupied, College dues and establishment charges and servants' wages, kitchen and buttery bills, fuel, laundry, lighting, etc. (amounts not separately estimated). (2) Initial: matricn., £5; College admission fee (usually £5); College caution-money, £10 to £30 (returned when name is removed from the books, and often in part on taking a degree). (3) Occasional: examn. fees, about £9 for B.A. (exclusive of Responsions, £3); degree fees (B.A., B.Litt., or B.Sc.), £7 : 10s. More detailed information about College expenses is contained in the *Handbook to the University of Oxford*, mentioned in the following paragraph.

PUBLICATIONS. *Calendar* (Nov.), 12s. 6d. net (includes lists of University officers, boards and committees; professors, readers, lecturers and demonstrators; institutions; fellowships, scholarships and prizes; and information relating to matriculation, fees and conditions required for degrees; it also includes the Honours Lists from 1931). Earlier Honours are given in *Historical Register*, 1900, 10s. 6d. net, and its *Supplement*, 1901–1930, 7s. 6d. net, together with much other historical information. *Handbook to the Univ. of Oxford*, 1935, 5s. net (by post 5s. 6d.), includes: (i) a general section on history, constitution and government, the tutorial system, life in college (and its cost), etc.; (ii) a statistical section on degree courses and the like; *Responsions* Pamphlet (June), 6d., by post 7d. (Regns. for 1938–40 with dates of examns. and general information); *General Information* (admission, residence, entrance scholarships, examns. for B.A., etc.), 7d. post free; *Fellowships, Studentships, Scholarships, Exhibitions, and Prizes open to Undergraduate and Graduate Members of the University*, 1s. net (post, 1s. 1d.); *Statuta* (Oct.), 5s. net; *Examn. Statutes* (July), 3s. 6d. net (post, 3s. 10d.); *Pocket Diary* for academic year (Oct.), 2s. 6d. net and 3s. 6d. net (by post 2d. extra); *Resident Members*, with their addresses, 2s. 6d. net (term) by post 2s. 9d.; *Oxford and Cambridge Schools Examn. Board* Decennial Reports, 6d. net each (post 7d.), Annual Report and Regulations, 1s. net each (post 1s. 3d. each), Lists of Successful Candidates and Papers of the various Examinations. All the above are obtainable from the Oxford Univ. Press, Amen House, Warwick Square, London, E.C.4, as is likewise the official *University Gazette* (annual subscription, 10s. 6d. post free) and the *Oxford University Press General Catalogue*. Unofficial periodicals: *Oxford Magazine* (during term), 6d.; *Oxford* (3 times a year), 1s. net; *Isis* (during term), 3d.; *Cherwell* (during term), 6d. Among other sources of information regarding the University the following may be cited: Wood (A.), *Hist. of the Univ. of Oxford*, 3 vols., 1792–96; Wood (A.), *Athenæ Oxon. (with Fasti)*, ed. by P. Bliss, 4 vols., 1813–20; Maxwell-Lyte (H. C.), *Hist. of the Univ. of Oxford to 1530*, 1886; Foster (J.), *Alumni Oxon., 1500–1886*, 8 vols., 1887–92; *The Colleges of Oxford*, ed. by A. Clark, 1891; *College Histories*, published by F. E. Robinson & Co.; Headlam (C.), *The Story of Oxford*, 1907 (7s. 6d. net); Mallet (Sir C.), *Hist. of the Univ. of Oxford*, 2 vols., 1924 (£2 : 2s. net); Barnard (F. P.) and Shepard (T.), *Arms and Blazons of the Colleges of Oxford* (3s. 6d. net); Fletcher (C. R. L.), *Handy Guide to Oxford* (1s. net); *The Government of Oxford*, 1931 (3s. 6d. net); Marriott (Sir John A. R.), *Oxford, its Place in National History*, 1933 (6s. net); Buxton (L. H. D.) and Gibson (S.), *Oxford University Ceremonies*, 1935 (6s. net.).

THE YEAR 1937–38

BENEFACTIONS. Lord Nuffield made the following benefactions: (1) £1,000,000 and an area of land of the value of approximately £100,000 for the establishment of a College for postgraduate work mainly, but not exclusively, in social problems (the name adopted for the College is "Nuffield College"), and for the erection and equipment of a new laboratory of physical chemistry; (2) £200,000 to meet the cost of buildings needed by the Medical School, established under his former benefaction; (3) £168,000 for Clinical Assistantships and Demonstratorships tenable by graduates of Dominion Universities in the Medical School and Pre-Clinical Departments.

The following benefactions were made to the Ashmolean Museum: Trustees of the *Seven Pillars of Wisdom*, £243 for books, slides and Cuneiform Tablets from Professor Langdon's Library; National Art Collections Fund, grant for purchase of Greek red-figured calyx-crater by the Dinos painter; Mr. M. N. Tod, two Greek inscriptions of the second and first centuries B.C.; Miss A. H. Symonds (bequest), paintings and sketches. Mr. and Mrs. H. N. Spalding gave: (1) £200 for cases in the Museum of the Indian Institute; (2) Japanese edition of the Chinese version of the Buddhist Tripitaka to the Bodleian Library; (3) an addition to the endowment for the Spalding Professorship of Eastern Religions and Ethics. Mr. H. B. Scicluna gave a valuable Maltese historical collection to the Rhodes House Library, and Miss Julia Lindley bequeathed £1000 to the Bodleian Library. Mr. Henry Ford gave a reconstruction of an original model of Edison's Phonograph, and the Royal College of Physicians gave £50 towards an armorial window for the Museum of the History of Science. Professor Percy Gardner bequeathed £200 as an additional endowment for the Barclay Head Prize in Ancient Numismatics. Miss A. H. Symonds bequeathed £2500 for the endowment of a postgraduate Horatio Symonds Studentship in Surgery. The French Government gave over 500 volumes and Mrs. Marshall Montgomery over 1500 volumes to the Library of the Taylor Institution. £2000 was given by Mrs. Nolloth to increase the stipend of the Nolloth Professorship of the Philosophy of the Christian Religion. Miss A. M. A. H. Rogers bequeathed £1000 and a leasehold house to the Society of Oxford Home-Students. The Oxford University Appeal, which was suspended in November 1937, when £426,912 : 4s. had been raised, was renewed in March 1938, and when it closed on 31st July 1938 had reached a total of £463,773 : 3 : 5.

NEW BUILDINGS. Extension of the Taylor Institution, library of the Society of Oxford Home-Students, Lecture Theatre for the School of Geography, extension of the Radcliffe Infirmary for the use of Nuffield Professors.

NEW POST. Second May Readership in Medicine.

LEGISLATION. Various Statutes have been passed in regard to the administrative work of the University to meet its increasing needs. A Statute enabling Professors with emoluments of less than £1200 to retain tutorial fees has been passed and the stipend of the Oriel Professor of Interpretation of Holy Scripture has been increased. Statutes have been passed altering the qualification for the title of Professor Emeritus, and allowing Emeriti Professors to retain membership of Congregation until they reach the age of 75. The condition of tenure of the Harmsworth Professorship of American History has been changed to make it easier to secure the services of American scholars of high distinction who might be unwilling permanently to sever their connexion with America. The Readership in Indian Law has been abolished, since it is now recognized that this particular branch of research can be better studied in India itself.

Portions of the Statutes hitherto in Latin have now been re-enacted in English. A Statute has been passed making clearer what persons other than undergraduates are required to reside within the University. Several Statutes affecting students from other Universities have been approved: the Statute concerning Senior Status has been revised and the basis on which exemption can be granted from Responsions has been broadened. A new Faculty of Anthropology and Geography has been created and has taken the place of the Committee for Anthropology and the Board of Studies for Geography.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Sir Aurel Stein, "A Journey of Archæological Exploration in South-Western Iran (1935–6)." David Talbot Rice (Univ. of Edinburgh), "The Beginnings of Russian Painting." Dr. Martin Wolff (Univ. of Berlin), "The Nature of Legal Persons." W. E. Gladstone Solomon (formerly Director of Govt. School of Art, Bombay), "An Artist's view of Ajanta." Dr. Homer A. Thompson, "The American Excavations in the Athenian Agora." Professor C. W. Blegen, "The American Excavations at Troy." J. Estelrich, "Un Renacimiento humanistico moderno." Professor A. P. Dustin (Univ. of Brussels), "The caryoclasic poisons. Their actions. Their importance in chemotherapy. Comparison with radiotherapy," and "The effects of arsenical compounds and colchicine on cell division. Applications in cytology, endocrinology, experimental pathology, and cancer research." Professor T. A. J. Stomps (Univ. of Amsterdam), "The recent development of the Mutation Theory." Professor R. E. Hume (Union Theol. Seminary, New York), "The Mysticism of the Upanishads." Professor H. G. Rawlinson, "India and the West." K. de B. Codrington, "Islamic Art in India," and "Sculpture in India."

HONORARY DEGREES. *D.D.*—Prof. Karl Barth; Prof. Hamilcar Alivisatos *D.Litt.*—Robert Ranulph Marett, M.A., D.Sc., Rector of Exeter Coll.; Sir Muirhead Bone; Prof. Louis Cazamian; Prof. Hermann Georg Fiedler, M.A., Fellow of Queen's Coll.; Prof. Stanley Arthur Cook, F.B.A. *D.C.L.*—His Excellency Dr. Armindo Rodrigues De Sttau Monteiro, Portuguese Ambassador at the Court of St. James's; His Excellency Tai-Chi Quo, Chinese Ambassador at the Court of St. James's; Rt. Hon. The Baron Desborough of Taplow, K.G., G.C.V.O., M.A., Hon. Fellow of Balliol Coll.; Hon. Mukund Ramrao Jayakar; Sir James Colquhoun Irvine, C.B.E.; Miss Eleanor Rathbone, M.A., M.P., Hon. Fellow of Somerville Coll. *D.Sc.*—Professor Geoffrey Ingram Taylor, F.R.S.; Harvey Cushing, Emeritus Professor of Neurology at Harvard; Professor Charles Gustave Jung, M.D., LL.D. *M.A.*—George Herbert Ely; Charles James L'Estrange; James Henry Hall Minn; Algernon Whitaker; Capt. Denys Vivian Hill; Lt.-Col. Eric George William Warde Harrison; Owen Mase; Hannibal Publius Scicluna.

SPECIAL ANNUAL LECTURES. The Herbert Spencer Lecture was delivered by Prof. Ernest Barker (subject: "Natural Law in the Political World"); the Zaharoff Lecture, by Dr. Louis Cazamian (subject: "Retour d'un Anglicisant à la poésie française"); the Romanes Lecture, by the Rt. Hon. the Viscount Cecil of Chelwood (subject: "Peace and Pacifism"); the Halley Lecture, by Professor A. O. Leuschner (subject: "The Hecuba group of Minor Planets"); the Sidney Ball Lecture, by Sir Alexander Maxwell (subject: "The Treatment of Crime"); the Taylorian Lecture, by Sir William Craigie (subject: "The Art of Poetry in Iceland)."

RETIREMENTS. Dr. H. E. D. Blakiston, President of Trinity; Mr. J. F. Stenning, Warden of Wadham; Rt. Rev. K. E. Kirk, Regius Prof. of Moral and Pastoral Theol. (on appt. as Bishop of Oxford).

DEATHS. Prof. H. H. Joachim; Sir G. E. Corbett; Sir Henry Newbolt; Dr. W. W. Vaughan; Rt. Rev. J. B. Seaton; Mr. L. Abercrombie; Mr. J. E. Marsh; Mr. R. Mackenzie; Mr. F. T. Barrington Ward; Mr. R. L. Beaumont; Mr. C. C. Lynam; Capt. R. C. Bourne; Miss A. M. A. H. Rogers.

STUDENTS. Full-time, 4940; research students, 287; preparing for first degree, 4327; other full-time students, 326. Matriculation, 1616.

EXTRA-MURAL TUTORIAL CLASSES. Advanced, 11 three year; 2 Advanced Tutorial Classes; 3 Preparatory; 2 Terminal Courses; 12 Vacation. Total students enrolled, 931.

UNIVERSITY EXTENSION LECTURES. 264 at various centres; aggregate average attendance, 791. Of these courses 8 were in Hist.; 4 in Lit.; 1 in Psychol.; 2 in Archit.; 5 in Politics; 1 in Geog.; 1 in Econ. Hist.

DEGREES. B.D., 3; D.D., 1; B.A., 1162; M.A., 620; B.Litt., 46; D.Litt., 4; B.C.L., 28; D.C.L., 1; B.Sc., 31; D.Sc., 2; B.M., 58; D.M., 15; M.Ch., 1; B.Mus., 5; D.Mus., 5; D.Phil., 40.

UNIVERSITY OF READING

Founded 1926

VISITOR—H.M. THE KING.

CHANCELLOR—The Rt. Hon. Sir SAMUEL HOARE, G.C.S.I., G.B.E., C.M.G., D.C.L., LL.D., M.P.

VICE-CHANCELLOR—Sir FRANKLIN SIBLY, D.Sc. Lond. and Bris., LL.D. Wales and Bris.

PRESIDENT OF THE COUNCIL—Sir GEORGE R. MOWBRAY, Bart., B.A. Ox.

TREASURER—A. P. SHAW, J.P.

REGISTRAR—E. SMITH, B.Litt. Ox., M.A., B.Sc. Liv.

LIBRARIAN—S. A. PEYTON, Ph.D.

BURSAR—E. B. MORGAN, B.A., B.A.I. Dub.

Telephone : Registrar—Reading 4422.

TEACHING STAFF

Agriculture, etc., v. *infra*

Art (School of Art)

Betts, J. A., A.R.C.A. Lectr. in Charge.

Lecturers

Pearce, C. C., R.B.A. (Design and Composition).
Yates, H. J. (Drawing and Painting).
Carter, A. C., A.R.B.S. (Modelling and Sculpture).
Ormrod, F. (Design).
Gibbings, R. (Typog., etc.).

Sessional Lecturers

Bayes, R. W. S. (Drawing and Painting).
Page, R., A.I.L.A. (Archit.).
Bayford, Valerie E. (Embroidery, etc.).
1 Teacher.

Biochemistry, v. Agr.

Botany, v. also Agr.

Harris, T. M., M.A., Ph.D. Camb., B.Sc. Lond. Prof.
Gillespie, J., B.Sc. Glas. Lectr.
Prankerd, Theodora L., D.Sc. Lond., F.L.S. Lectr.

Chemistry, v. also Agr. [Prof.

Bassett, H., D.Sc. Lond., Ph.D. Mun., D. ès Sc. Nancy, F.I.C.
Goodwin, T. H., B.Sc., Ph.D. Birm., A.I.C. Lectr.
Maxted, D. R., B.Sc. Lond., A.R.C.S. Lectr.
Mills, A. K., B.Sc., Ph.D. St. And. Lectr.
Durrant, R. G., M.A. Ox. Hon Research Fellow.

Classics

Ure, P. N., M.A. Camb. Prof.
Dudley, D. R., M A. Camb. (Latin) Lectr.
Fisher, W. H., M.A. Camb. Lectr.
Cormack, J. M. R., B.A. Camb., M.A. Aberd. Lectr.
Ure, Mrs. A. D., B.A. Lond. (Gr. Archæol.) Hon. Research Fellow.

Commerce

Taylor, H., F.L.A.A. Lectr.
McCrindell, Jane M., M.A. Glas. Lectr.
1 Asst.

Dairying, v. *infra*

Domestic Subjects

Priestley, Beatrice A., O.B.E. Lectr. in charge of Dept.
Hall, Iris K. Asst. Lectr.
Henry, D. Mildred Asst. Lectr.
Jinks, Dorothy P. Asst. Lectr.
Smith, Winifred O. Asst. Lectr.
1 Sessional Lectr. in Hygiene.

Economics [Lectr.

Buer, Mabel C., D.Sc. (Econ.) Lond.

Education

Barnard, H. C., M.A., B.Litt. Ox., M.A., D.Lit. Lond. Prof.
Campbell, Isabella E., M.A., B.Ed. Edin. Lectr.
Mitchell, W. F., B.Litt. Ox., M.A. Edin. Lectr.
Gillett, C. R. E., M.A. Ox. Lectr.
Kermode, Helen S., M.A., Liv. Sessional Lectr.
2 Instrs. in Physical Training.

English Language & Lit. [Prof.

Dewar, R., M.A. Glas (E. Lit.)
Morley, Edith J., M.A. Ox. (E. Lang.) Prof.
Dyson, H. V. D., B.Litt., M.A. Ox. Lectr.
Young, Jean I., M.A., Ph.D. Camb. Lectr.

French

Desseignet, J., Ag. de l'U. Prof.

Lecturers

Bowen, R., D. de l'U. Strasb., B.A.
Paton, Dorothea A., M.A. Ox.
Salmon, Yvonne M. A., L. ès L. Paris

Geography [Lectr.

Kimble, G. H. T., M.A. Lond.
Miller, A. A., M.Sc. Lond. Lectr.
Morris, W. F., B.A. Lond. Sessional Asst. Lectr.

Geology

Hawkins, H. L., D.Sc. Manc., F.R.S., F.G.S. Prof.
Wager, L. R., B.A. Camb., B.Sc. Lond. Lectr.
Walder, Phoebe S., B.Sc. Lond. and Reading. Demr. and Museum Asst.

German [Lectr.

Matthews, Evelyn, M.A. Wales
Klapp, A., Ph.D. Hamb. Asst.

History, Modern

Stenton, F. M., M.A., D.Litt. Ox. and Leeds, F.B.A. Prof.
Childs, W. M., M.A., D.Litt. Ox., LL.D. Liv. Hon. Prof.

Lecturers

Aspinall, A., M.A., Ph.D. Manc.
Stenton, Mrs. D. M., B.A. Lond.
Peyton, S. A., Ph.D.

Mathematics

Neville, E. H., M.A. Camb., B.Sc. Lond. Prof.

Lecturers

Ashcroft, Lucy, M.A. Dub.
Goodstein, R. L., B.A. Camb.
Smith, R. A., M.A., Edin., B.A., Ph.D., Camb.
Ternouth, Elsie J., M.A. Glas.
1 Teacher of Machine Drawing and Applied Mechanics.

Music [Visitor of School.

Allen, Sir Hugh P., G.C.V.O., M.A. Camb., D.Mus. Ox., Mus.D. Camb., D.Litt. Sheff.
Lofthouse, C. Thornton, D.Mus. Dub., A.R.C.M. Director and Lectr. in Charge of School.
8 Teachers.

Philosophy [Prof.

Hodges, H. A., M.A., D.Phil. Ox.
Budden, E. S., M.A., D.Phil. Ox. Lectr.

Physics

Crowther, J. A., M.A., Sc.D. Camb., F.Inst.P. Prof.
Pearson, R. L. Lectr.
Rymer, T. B., M.A. Camb., Ph.D. Lond. Lectr.
White, P., M.A., Ph.D. Camb. Lectr.

Psychology [Lectr.
Wolters, A. W. P., M.A. Lond.
Oldham, Mrs. H. W., B.Sc. Lond., M.A., Ph.D. Lectr.

Spanish [Sessional Teacher.
Edwards, P. C., M.A. Camb.

Vet. Hygiene, v. Agric.

Zoology
Cole, F. J., D.Sc. Ox, F.R.S. (to 30.9.39). Prof.
Eales, Nellie B., D.Sc. Lond. Lectr.
Crichton, M. I., B.Sc. Edin. Asst. Lectr.
Stoneman, W. E., M.A. Camb. Museum Asst.

Agriculture and Horticulture

Agriculture
Rae, R., B.Agr. Belf. Prof.
Black, D. J. G., B.Sc. (Agric.) Edin. Lectr.
Campbell, K. W. D., B.Sc. Durh., M.Sc. Lectr.
Orton, D. V., B.A., Ox. Asst. Lectr.

Agr. Bacteriology, v. also Dairy B.
Allen, L. A., B.Sc., Ph.D. Lond., M.Sc. Lectr.
Appleby, Jessie C., B.Sc. Lond., Ph.D. Asst. Lectr.

Agr. Botany [Prof.
Brierley, W. B., D.Sc. Manc., F.L.S.
Erith, Adela G., B.Sc., Ph.D. Lond. Lectr.
Waldie, J. S. L., B.Sc. Edin. Lectr.
Bumpus, E. D., B.Sc. (Agric.) Asst. Lectr.
1 Asst.

Agricultural Chemistry
Neville, H. A. D., M.A. Camb., B.Sc. Lond., F.I.C. Prof.
Bee, J. W., M.A. Camb. Lectr.
Nicholson, M. N., B.Sc. Glas., A.I.C. Lectr. and Advisory Officer.
Rowland, S. J., B.Sc. (Agric.), Ph.D., F.I.C. Lectr.
Grimbleby, F. H., B.Sc. Leeds Asst. Lectr.
Thompson, J., Ph.D. Heid., F.I.C. Analyst.
Kay, Frances F., B.Sc. (Hortic.), Ph.D. Research Asst.
1 Asst.

Agric. Economics
Thomas, E., B.Litt. Ox., B.Sc. Wales Lectr. and Advisory Officer.
Bisset, G. B., B.Sc. Aberd., M.Sc. Cornell Asst. Lectr.

Biochemistry
Kay, H. D., O.B.E., Ph.D. Camb., D.Sc. Manc. Research Prof.

Biochemistry and Physiology (N.I.R.D.)
Kon, S. K., Ph.D., Warsaw, D.Sc.
Folley, S. J., M.Sc., Ph.D., Manc.
Henry, Kathleen M., B.S. Lond. and N.U.I., Ph.D. Aberd., A.R.C. Sc.I., A.I.C.
Kon, Mrs. Phyllis M., Ph.D., M.R.C.V.S. Hon. Research Asst.

Building Construction, etc.
Hitchins, W. W., L.R.I.B.A., P.A.S.I. Lectr.
1 Asst.

Dairying
Capstick, E., M.C., M.Sc. Durh., N.D.A., N.D.D. Prof.
1 Instr., 1 Asst. Instr.

Dairy Bacteriology (N.I.R.D.)
Mattick, A. T. R., B.Sc., Ph.D. Lond. Lectr.
Davis, J. G., M.Sc., Ph.D., Lond.
Hiscock, Edith R., M.Sc., Lond., B.Sc. Bris.
Maddock, E. C. G., C.I.E., M.D., Ch.B. Edin., D.P.H. Camb., D.T.M. Liv. Hon. Research Fellow.
1 Adviser.

N.I.R.D.=National Institute for Research in Dairying, v. p. 291.

Dairy Chemistry (N.I.R.D.)

Blair, G. W. Scott, M.A. Ox., Ph.D. Lond., A.I.C.

Davies, W. L., Ph.D. Camb., M.Sc. Wales, N.D.A., F.I.C.

Mattick, Mrs. E. C. V., M.Sc., Ph.D. Bris.

Dairy Husbandry (N.I.R.D.)

Mackintosh, J., O.B.E., N.D.A., N.D.D. Lectr.

Bartlett, S., M.C., B.Sc. (Dairying), Ph.D., N.D.D.

1 Asst.

Economic Entomology

Hodson, W. E. H., A.R.C.S., D.I.C. Lectr.

1 Asst.

Economic Mycologist

Buddin, W., M.A. Camb.

Horticulture

Stoughton, R. H., D.Sc. Lond., A.R.C.S. Prof.

Cook, H. H. Lectr.

Fraser, H., N.D.H. Lectr.

Hole, Doris R., B.Sc. Lond. Lectr.

1 Instructor.

Machinery

Elms, C. E., B.Sc. (Agric.) Lond., N.D.A. Lectr.

Veterinary Hygiene

Male, G. P., M.R.C.V.S. Lectr.

Veterinary Science

Barron, N. S., B.Sc. Lond., M.R.C.V.S.
Vet. Surgeon and Advisory Officer.

University Extension

Tutors, 4.

British Dairy Institute (occupying a building on the University site and controlled by a committee representing the British Dairy Farmers' Assocn. and the University. Professor of Dairying—E. Capstick, M.C., M.Sc. Durh., N.D.A., N.D.D. 1 Instr., 1 Asst. Instr.

The National Institute for Research in Dairying, Shinfield, near Reading, established by the Ministry of Agric. and Fisheries in 1912, forms part of the Univ. (Director—H. D. Kay, O.B.E., Ph.D.Camb., D.Sc. Manc.). It is governed by a Board consisting of representatives of the Ministries of Agric. and Health, R.A.S. of England, British Dairy Farmers' Assocn., Nat. Farmers' Union, etc. It has five Depts.—Dairy Bacteriology, Dairy Chemistry, Dairy Husbandry, Physiology and Biochemistry, and Dairying. *See also* App. III. A. I. (d).

GENERAL INFORMATION

The University was established by Royal Charter, March 17, 1926. For early history, see *Yearbook* for 1929.

Library, 65,000 vols., including Overstone collection (7500 vols.) of books on Polit. Econ. (pubd. before 1850), English and French thought during eighteenth century, and topography (especially Northamptonshire); 18,300 pamphlets. 300 periodicals are received. Museums: Zool. and Hist. and Archæol. Laboratories: Bacteriol., Bot., Chem., Geol., Mech., Physics, Psych., Zool. Fine Art Studios. School of Music. Agricultural Machinery Hall. Two farms (359 and 380 acres) and Horticultural Station.

Faculties: (1) Letters, (2) Science, (3) Agric. and Horticulture (associated with which are the National Inst. for Research in Dairying and British Dairy Inst.).

DEANS: (1) Prof. R. Dewar (Eng. Lit.); (2) Prof. H. L. Hawkins (Geol.); (3) Prof. H. A. D. Neville (Agr. Chem.).

SCHOOLS: Art, Music.

DEPARTMENT: Domestic subjects.

ADMISSION. *See* Appendix I. Entrance examn. for Diploma courses in Commerce, Agric., Dairying, Hortic., Landscape Architecture, Domestic subjects.

DEGREES. B.A., M.A., D.Litt.; B.Sc., M.Sc., D.Sc.; B.Sc. (Agric.), B.Sc. (Dairying), B.Sc. (Hortic.); Ph.D. The M.Sc. and D.Sc. are obtainable in the Faculty of Agriculture and Horticulture as well as in the Faculty of Science. The Senate may decline to admit to a degree course a person whose place of residence during term is at too great a distance from Reading, and the degree of Bachelor may not be granted to a candidate whose record as a student of the University is not deemed satisfactory.

The Charter provides that degrees representing proficiency in technical subjects shall not be conferred without proper security for testing the scientific or general knowledge underlying technical attainments.

An oral examination forms part of the Final examn. for a B.A. degree with honours, except in Mathematics, and, at the discretion of the Examiners, may form part of the Intermediate or of the Final Examn. for a Pass B.A. degree, or of the Intermediate or Final Examn. for the B.Sc. In the Final Examn. for the B.Sc. candidates are examined upon either a general course of study (3 subjects) or a special course; honours can be obtained in either case. The Final Examn. (Special) is ordinarily taken after passing the Final Examn. (General). The course for the degree with honours extends over 4 years in Agriculture and in certain cases in Arts and in Science.

UNIVERSITY DIPLOMA COURSES are as follows: 2 yrs.—Agric., Commerce, Dairying, Domestic subjects, Hortic. 3 yrs.—Landscape Architecture, Fine Art, and for Diplomas with distinction in Agric., Dairying, Domestic subjects, Hortic. 1 yr. (post-grad.)—General Bacteriol., Education.

OTHER COURSES for Univ. Certifs., Agric., Poultry Husbandry, Commerce, Domestic subjects, Hortic. (1 yr.); Secretarial subjects (1 yr. post-graduate); Jewellery and Enamelling, Wood Carving, Woodwork, Embroidery, Leather Work, Writing and Illuminating (2 yrs.); British Dairy Farmers' Assocn. examns. (6 months.); L.R.A.M., A.R.C.M., etc.

TUTORIAL SUPERVISION. Every student following one of the organized day courses or a specially arranged day course involving frequent attendance at the Univ. for at least 2 terms is placed under the supervision of a tutor.

A RESEARCH BOARD promotes research and original work in the Univ. (apart from the National Institute for Research in Dairying). It administers funds entrusted to it for the purpose, and issues an annual record and report.

TERMS. 3, each of 10 weeks, the first beginning on the first Friday in October. Vacations of 4 weeks at Christmas and 5 weeks at Easter.

RESIDENCE. All students following full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a University Hall of Residence. There are two Halls for men, Wantage (Warden: J. S. L. Waldie, B.Sc.), St. Patrick's (Warden: R. L. Pearson), and four for women, St. Andrew's (Warden: Dorothy Mack Smith, B.Sc.), Wessex; (Warden: Evelyn M. Wiseman, M.A.), St. George's and Ashdown (Warden: Isobel A. Turner, M.B.E., B.Sc.). Full-time day students living in recognized

houses, or at home in or near Reading, are associated in St. David's Hall, a non-residential club. For Expenses, v. *infra*.

SCHOLARSHIPS OPEN TO GRADUATES. Offered annually by the Univ.—£100; "Ernest Ridley"—£50 plus tuition fees, for one year, renewable for a second year.

FEES. For Tuition: Ph.D. course—£5 or £7 p.a.; M.A. course—£5 p.a.; M.Sc. course—£7 p.a.; Bachelor's Degree course—Arts, £30 p.a.; Sc. or Agric. or Dairying or Hortic., £35 p.a.; Diploma course—Commerce, £25 p.a.; Agric. or Hortic. or Landscape Architecture or Domestic subjects, £30 p.a.; Dairying, £35 for 1st, £41 for 2nd year; General Bacteriol. (post-grad.), £35 p.a.; Fine Arts, £21 p.a.; Certif. courses—£21 to £30 p.a. Tuition fees are in most cases reduced by 25 per cent to students from neighbouring counties, under certain conditions.

EXPENSES. Total average necessary yearly expenses (excluding travelling, clothing, and personal laundry) about £120 p.a., namely: (i) Registration, matriculation, cap and gown, tuition, examination, and graduation, average £38 p.a. for a degree student; for diploma or certificate student somewhat less. (ii) Maintenance, including board and lodging in Halls or lodgings and sanatorium fee, maximum for 30 weeks about £77 for a man and £69 for a woman student. (iii) Personal, including subscription to Union (3 gs. p.a.), and cost of books and stationery, widely variable, say £6 p.a.

Courses of lectures open to the public are ordinarily charged for at 15s. per term (30s. per session) for each subject (one hour per week).

APPOINTMENTS. The Registrar.

STUDENT ORGANIZATIONS. Students' Union and Representative Council. An Old Students' Association meets annually at the Univ. at Whitsuntide.

UNIVERSITY EXTENSION, ETC. Agriculturists are helped by correspondence, visits, local lectures, examination of diseased plants, etc Evening classes are held in Mech. Engineering, Building, and most of the subjects in which Day courses are provided. Tutorial classes are held in connexion with the W.E.A.

PUBLICATIONS. *Calendar* (Sept.), 2s.; *University Gazette*; General Prospectus (including illustrations and plans); Departmental Prospectuses (Degree courses, Education, Commerce and Secretarial, Agriculture, etc., Fine Arts and Handicrafts, Music, Domestic subjects); Scholarships and Studentships; Guide to Evening Classes, 2d.

THE YEAR 1937-38

BENEFACTIONS. Donations amounting to £24,235, including grant of £12,500 from Univ. Grants Committee, have been received towards fund for new Hall of Residence for Women Students. Gift of £1000 from Mrs. W. Haynes to endow Entrance Scholarship as memorial to her husband, the late Mr. William Haynes. Bequests of £500 by Mr. H. J. Perris, £300 by Mr. H. G. Willink, and £100 by Miss Kate Ratcliffe.

NEW POSTS. Professorship of Dairying. Assistantship to the Advisory Entomologist.

CHANGES IN REGULATIONS. Institution of a four-year course leading to the degree of B.A. with Honours in Fine Art. Regulations for the Intermediate Science (Horticulture) Examination.

EXTRA-MURAL WORK. Two three-year Tutorial Classes, and one University Extension Course.

RETIREMENTS. W. D. Boseley (Music), A. J. Cobb (Hortic.), A. Todd (Dairying) and Mrs. Marcus Wood (Domestic Subjects).

RESIGNATIONS. Miss Constance A. Brothers (Assistant Librarian); Miss H. B. Daniels (Sub-Warden of St. George's Hall and Ashdown Hall), to be Welfare Supervisor on London Midland and Scottish Railway; Dr. J. Hargreaves (Maths.), to be Principal of the Marine School, South Shields; J. B. Passmore (Warden of Wantage Hall), to be Secretary of Physical Educ. Committee for West Riding of Yorkshire; J. R. Thomson (Agric. Botany), to post in School of Agriculture, Khartoum; W. F. K. Wynne-Jones (Chem.), to be Prof. of Chemistry in Univ. College, Dundee.

DEATHS. Emer. Prof. S. Pennington (Prof. of Agric. 1920–1933); J. A. Glason (Educ.).

HONORARY DEGREES.—Nov. 1937. *D.Litt.*—Sir Samuel Hoare (Home Secretary), Viscountess Astor, Rt. Hon. H. A. L. Fisher (Warden of New College, Oxford), H. G. Granville-Barker, Dame Margaret Tuke. *D.Sc.*—Prof. J. Chadwick, (Prof. of Physics, Univ. of Liverpool), Sir Warren Fisher (Permanent Secretary of H.M. Treasury), Rt. Hon. the Earl of Iveagh, Sir Thomas Middleton, Sir Edward Poulton. June 1938. *D.Litt.*—The Rt. Hon. Neville Chamberlain (Prime Minister), Sir Hugh P. Allen (Prof. of Music in Univ. of Oxford), The Rt. Hon. Lord Atkin (Lord of Appeal in Ordinary), Field-Marshal Lord Birdwood (Master of Peterhouse, Cambridge) and Mr. Richard Sickert.

STUDENTS. Full-time: 675, including 67 graduates. Part-time: 812, including 6 graduates.

DEGREES. B.A., 35; B.Sc., 30; B.Sc. (Agric.), 11; B.Sc. (Agric.), with Distinction, 1; B.Sc. (Dairying), 7; B.Sc. (Hortic.), 17; M.Sc., 5; Ph.D., 2.

THE UNIVERSITY OF SHEFFIELD

Founded 1905

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Hon. the MARQUESS OF CREWE, K.G., D.C.L., LL.D.

PRO-CHANCELLORS—Lt.-Col. Sir HENRY K. STEPHENSON, Bart., D.S.O., LL.D., D.L., J.P.; S. OSBORN, LL.D., J.P.

VICE-CHANCELLOR—J. I. O. MASSON, M.B.E., D.Sc., Melb., F.I.C.

TREASURER—J. WARD, J.P.

REGISTRAR—W. M. GIBBONS, O.B.E., M.A., F.C.I.S.

LIBRARIAN—A. P. HUNT, B.A.

Telephone: Registrar—Sheffield 20305.

TEACHING STAFF

Anatomy [A. Jackson Prof.
Davies, F., D.Sc., M.D., B.S. Lond., M.R.C.S., L.R.C.P.
Naish, Mrs. Lucy, M.B. Lond. (Osteology) Lectr.
MacConaill, M. A., M.Sc., M.B., B.Ch., B.A.O. Belfast. Lectr. and Senr. Demr.
Anderson, J. C., M.B., Ch.B. St. And., F.R.C.S. (Surg. A.). Lectr. and Demr.
Mackie, E. G., M.A., M.B., Ch.B. St. And., F.R.F.P.S. Glas., D.O.M.S. (Ophthal. A.) Lectr.
Patrick, L. B., M.B., Ch.B., F.R.C.S.E., M.C.O.G. (Gynæcol. A.) Lectr.
Grimoldby, J. R., M.Sc., M.B., Ch.B. Demr.
Hughes, J., M.A., B.Ch. Camb., F.R.C.S. Hon. Demr.

Architecture
Welsh, S., M.A., B.Arch. Liv., F.R.I.B.A. Lectr.
Leighton, H. B., M.A., F.R.I.B.A. (Building Sci. Subjects) Lectr.
Paterson, D. S., Dip. Arch. Glas. Asst. Lectr.
Wilkinson, J. T., M.A. Asst. Lectr.
Grainger, B. M., A.R.C.A. (Freehand Drawing and Colour) Hon. Instr.
Brody, F. J., A.R.C.A. (Freehand Drawing and Colour) Hon. Instr.

Art, v. Civic Art

Biology, v. Botany and Zool.

Botany [Prof.
Pearsall, W. H., D.Sc. Manc.
Lind, Edna M., B.Sc., Ph.D. Liv. Lectr.
Boswell, J. G., M.Sc. Lond. Lectr.
Philip, Judith M., M.Sc., Ph.D. Hon. Demr.

Chemistry
Linstead, R. P., D.Sc., Ph.D. Lond. Firth Prof.

Lectrs.
..... (Phys. C.)
Chapman, A. W., D.Sc. Lond., F.I.C. (Organic C.)
Smith, T. B., B.Sc., Ph.D. Lond.
Turner, Emily G., M.Sc.
Speakman, J. C., M.Sc., Ph.D.

Jones, B., B.Sc. Wales, Ph.D. Camb. and Wales.
Hampson, G. C., B.A., B.Sc., D.Phil. Ox. Asst. Lectr.

Civic Art

..... Prof.

Classics

Forster, E. S., M.B.E., M.A. Ox., F.S.A. (Greek) Prof.
Craig, J. D., B.A. Ox., M.A., D.Litt. St. And. (Latin) Firth Prof.
Maguinness, W. S., M.A. Dub. Lectr.
Laughton, E., M.A. Ox. Asst. Lectr.

Dentistry, v. *infra*

Economics

Knoop, D., M.A. Manc. Prof.
Jones, G. P., M.A., Litt.D. Liv. (Econ. Hist.) Lectr.
Pool, A. G., B.Sc. (Econ.) Lond. Lectr.

Education

Turnbull, G. H., M.A. Liv., Ph.D. Bonn. Prof.

Lecturers

Bradford, E. J. G., M.Sc. Lond.
King, Etheldreda M.A., B.A. Lond.
Thompson, J. Ridley, M.C., D.Sc. Durh.
Maguinness, Olive D., D. ès Sc. Montpellier, M.Sc.
Halloran, J. H., M.A. Leeds.
Tempest, N. R., M.A. Liv., M.Ed. Harv. Asst. Lectr.

Engineering, v. *infra*

English Lang. and Lit.

Bullough, G., M.A. Manc. (Eng. Lit.) Prof.
Jones, J. D., B.A. Lond., Ph.D. Berl., M.A. (Eng. Lang.) Lectr.
Hamer, D., M.C., M.A. Liv. (Eng. Lit.) Lectr.
Reynolds, W. V., M.A., B.Litt. Ox. (Eng. Lit.) Lectr.

French

Clapton, G. T., M.A. Prof.
Elcock, W. D, M.A. Manc., L. ès L., D. de l'U. Toulouse Lectr.
Sykes, L. C., M.A. Asst. Lectr.
Fréchet, J. R., Agr. de l'U. Lecteur.

Fuel Technology, v. *infra* Engin.

Geography

Brown, R. N. Rudmose, D.Sc. Aberd. Prof.
Garnett, Alice, B.A., Ph.D. Lond. Lectr.
Watson, J. W., M.A. Edin. Asst. Lectr.

Geology

Fearnsides, W. G., M.A. Camb., F.R.S. Sorby Prof.
Wilcockson, W. H., M.A. Camb. Lectr.
Shirley, J., M.Sc. Manc. Lectr.

German

Dunstan, A. C., B.A. Lond., Ph.D. Königsb. Lectr.
Grewe, H. F., B.A. Asst. Lectr.

Glass Technology, v. *infra* Engin.

History

Woodward, A. M., M.A. Ox., F.S.A. (Ancient H.) Lectr.
Potter, G. R., M.A., Ph.D. Camb. (Mod. H.) Prof.
Lewis, N. B., M.A., Ph.D. Manc. (Medieval H.) Lectr.
Tyler, J. E., B.A. Ox., M.A. (Modern H.) Lectr.

Law

Browne, D., M.A. Ox. Prof.
Metcalfe, O. K., M.A, LL.M. (Pub. and Com. L.) Lectr.
Renwick, J., M.A., LL.B. Camb. (Real Prop. and Conveyg.) Lectr.
Smith, W. Mackenzie, D.S.O., T.D. (Income Tax L.) Lectr.
Schofield, A. N., LL.M. (Local Govt. L.) Lectr.

Connell, A. H., B.A., LL.B. Camb. Asst. Lectr.
Downing, F., F.C.A. (Trust Accounts, etc.) Tutor.

Mathematics

Daniell, P. J., M.A., Sc.D. Camb. Town Trust Prof.
Stewart, C. A., B.A. Camb., M.A., D Sc. Glas. (Geom.) Lectr.
Cox, R. R. S., M.A. Camb. (Dynamics), Curator of Observatory, Lectr.
Rado, R., Ph.D. Camb. and Berlin Asst. Lectr.
Baber, T. D. H., M.Sc. Brist. (Engin. Maths.) Asst. Lectr.
Goodwin, E. T., M.A. Camb. Asst. Lectr.

Medicine, v. *infra*

Metallurgy, v. *infra*

Mining, v. Engin., *infra*

Music

Shera, F. H., M.A., Mus.M. Camb., F.R.C.O., Hon. A.R.C.M. James Rossiter Hoyle Prof.
Grant, Willis, D.Mus. Durh., F.R.C.O., A.R.C.M. Asst. Lectr.

Philosophy

Laing, B. M., M.C., M.A., D.Litt. Aberd. Lectr.

Physics

Milner, S. R., D.Sc. Lond. and Bris., F.R.S., F.I.P. Prof.
Lawson, R. W., D.Sc. Durh., F.I.P. Lectr.
Clarke, J. R., M.Sc., F.I.P. Lectr.
Elliott, A., B.Sc., Ph.D. Durh., D. Sc. Utrecht. Lectr.
Yates, E. Leighton, M.Sc., Ph.D. Wales. Asst. Lectr.
Conn, G. K. T., M.A. Aberd., B.A., Ph.D. Camb. Asst. Lectr.

Physiology

Clark, G. A., M.D. Durh. Prof.
Eaves, Eliz. C., B.Sc., M.D., B.S., D.P.M. Lond. Lectr.
Imrie, C. G., M.D. Westn. Ont., F.R.C.P. Lectr.
Winter, L. B., M.A., M.D. Camb. Lectr.
Mellanby, Lady May, Girton Coll. Camb., D.Sc. Sheff. and Liv. Hon. Lectr.
Gaunt, R. T., M.Sc., M.B., Ch.B. Demr.

Public Health, v. Medicine *infra*

Russian

Birkett, G. A., M.A. Liv. Lectr.

Spanish [Hughes Lectr.
Sarmiento, E., B.A., Ph.D. Lond.
de Fenn, Beatriz, L. ès L. Barcelona Asst. Lectr.

Zoology

Eastham, L. E. S., M.A. Camb., M.Sc. Leeds Prof. and Hon. Curator of Museum.
Francis, E. T. B., B.Sc. Lond., Ph.D. Reading. Lectr.
Mellanby, K., B.A. Camb., Ph.D. Lond. Hon. Lectr.
Colman, J. S., M.A. Ox. Asst. Lectr.
Mellanby, Mrs. Helen, B.Sc., Ph.D. Lond. Hon. Res. Asst.

Engineering

v. also Maths. *supra*

Swift, H. W., M.A. Camb., D.Sc. (Eng.) Lond., M.I.Mech.E. Prof. of Engineering
Payne, G., B.Eng. Research Asst. to Prof.

Engineering, Civil

Boulton, N. S., M.Sc. Birm. (in charge of Dept.) Lectr.
Morgan, T. L., B.Sc. Wales Lectr.
Jenkins, R. B. M., M.A. Camb. Asst. Lectr.
Cooke, G. E., M.A. Camb. Asst. Lectr.

Engineering, Electrical

Lecturers

Wall, T. F., D.Sc. Vict., D.Eng. Liv., M.I.E.E. (in charge of Dept.)
Hainsworth, C. H., M.Eng.
Joyce, T. C , B.Sc. Lond. & Brist.
Milner, W. S., Dipl. Ing. Zürich, M.Eng.
Harrison, D., M.Eng. Liv. Asst. Lectr.
Lloyd, H., M.Eng., Ph.D. (Wireless Telegraphy) Demr.

Engineering, Mechanical

Lecturers

Turner, F. C., M.Eng. (in charge of Dept.)
Davies, H. J., M.Sc. Lond.
Burnet, W., B.Eng., M.I.Mech.E.
Parker, C. F., B.Sc. Lond.
Dick, J., Ph.D., B.Sc. Glas.
Bellamy, R. G., M.Eng.
Baildon, E., M.Sc. (Eng.) Lond. Asst. Lectr.

Fuel Technology

Wheeler, R. V., D.Sc. Manc., F.I.C., M.I.M.E. Prof.
Batley, W. A., M.Sc. Manc. Lectr.
Kirkby, W. A., M.Sc., Ph.D. Manc., F.I.C. Lectr.
Beet, A. E., B.Met. Demr.
Mott, R. A., D.Sc. Leeds, F.I.C. Research Asst.

Glass Technology

Turner, W. E. S., O.B.E., M.Sc. Birm., D.Sc. Lond., F.I.P., F.R.S. Prof.
Parkin, M., M.Sc., A.I.C. Lectr.
West-Oram, F. G., M.Sc.Tech. Asst. Lectr.
Senr. Research Asst.
Dimbleby, Violet, M.Sc.
Research Assts.
Preston, E., D.Sc. Birm., Ph.D.
Holland, A. J., M.Sc. Lond., Ph.D., D.I.C.
Nichols, N. A., M.Sc. Tech., M.Eng.
1 Research Fellow.

Mining Engineering

Hay, D., B.Sc. Lond., M.I.C.E., M.I.M.E. Hon. Prof.
Statham, I. C. F., M.Eng., M.I.M.E., F.G.S. Prof.
Bevan, E., M.Sc. (Min.) Lond., M.I.M.E. (Mine Surveying) Lectr.
..... Lectr.
Shirley, J., M.Sc. Manc. (Mining Geol.) Lectr.
Wright, A., M.Eng. Research Asst.

Metallurgy

Andrew, J. H., D.Sc. Manc. Prof.
Maddocks, W. R., B.Sc. Wales, Ph.D. Glas. (Ferrous) Lectr.
Orme, F., M.Met., A.I.C. (also Dental M.) (Non-Ferrous) Lectr.
Rees, W. J., M.Sc. Tech., F.I.C. (Refractories) Lectr.
Percival, R. T., B.Met. (Founding) (also Dental M.) Lectr.
MacDougall, A. J. Lectr.
Protheroe, H. T., B.Sc. Wales Asst. Lectr.
Quarrell, A. G., B.Sc., Ph.D. Lond., A.R.C.S., F.I.P. Asst. Lectr.
Havenhand, D., B.Sc. Asst. Lectr.
de Belin, G.A.
Asst. Lectr. & Research Asst.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Pleasance, R. E., M.D., D.A. Lectr.
14 other Instructors.

Bacteriology

Edington, J. W., M.D., D.P.H. Edin. Prof.
Croll, J. MacA., M.B., Ch.B., D.P.H. Aberd. Lectr.

Paine, C. G., M.D., B.S. Lond. Lectr.
Pownall, Margaret, M.B., Ch.B., D.P.H. Manc. Asst. Bacteriologist.
Spink, M. S., M.D. Camb., M.R.C.S., L.R.C.P. Jr. Asst. Bacteriologist.
Kirk, Florence S., M.B., Ch.B. Glas., D.P.H. Camb. Demr.
Hermitte, L. C. D., M.B., Ch.B. Edin. Demr.
Barrie, H. J., B.M., B.Ch. Ox. Demr.

Biochemistry

Krebs, H. A., M.A. Camb., M.D. Hamb. Lectr.

Dermatology

Hallam, A. R., M.D., Ch.B. Edin., M.R.C.P. Lectr.

Diseases of Children

Bremner, A., M.C., M.D., Ch.B., D.T.M. & H., D.P.H. Edin. Lectr.
2 other Clin. Teachers.

Dis. of Ear, Nose, and Throat

Townrow, V., M.B., B.S. Lond., F.R.C.S. Lectr.
Cobb, J. H., M.B., B.S. Lond., M.B., Ch.B., F.R.C.S. Eng. and Ed. (Aural Anat.) Lectr.

Forensic Medicine

Forbes, G., B.Sc., M.B., Ch.B. Glas., F.R.C.S.E., F.R.F.P.S. Glas. Lectr.

History of Medicine

Wilkinson, G., B.A., M.B., B.Ch. Camb., F.R.C.S. Lectr.

Infectious Diseases

Kennedy, J. M., M.B., B.Ch., B.A.O. Belf., D.P.H. Lectr.

Medicine

Barnes, A. E., M.B. Lond., M.B., Ch.B., F.R.C.P. Prof.
Yates, A. G., M.A., M.D., Ch.B. Edin., F.R.C.P. Lectr.
Skinner, E. F., M.A., M.D., B.Ch. Camb., F.R.C.P. Lectr.
Imrie, C. G., M.D. Westn. Ont., F.R.C.P. Lectr.
Platt, R., M.D., F.R.C.P. Lectr.
Gumpert, T. E., M.B., Ch.B., M.R.C.P. Tutor.
Brody, H. P., M.R.C.P., M.R.C.S. Tutor.

Mental Diseases

Kennedy, R. S., M.B., Ch.B., D.P.M. Lectr.
Skinner, E. F., M.A., M.D., B.Ch. Camb., F.R.C.P. (Psychol.). Lectr.
Schneider, F. E. E., M.D. Lond., M.R.C.S., L.R.C.P., D.P.M. Asst. Lectr.

Obstetrics and Gynæcology

Chisholm, J., M.B., Ch.B. Edin., F.R.C.S. Ed., F.C.O.G. Prof.
Stacey, J. E., M.D., B.S. Lond., M.B., Ch.B., F.R.C.S. Edin., F.C.O.G. Lectr.
Davies, Glyn A., M.B., Ch.B. Ed., F.R.C.S. Edin., M.C.O.G. Lectr.
Macdonald, C. R., M.B., Ch.B. Edin., F.R.C.S. Edin., M.C.O.G. Tutor.
Clancy, W. J., M.B., B.Ch., B.A.O.N.U.I. Demr.
1 other Clin. Teacher.

Ophthalmology

Ferguson, W. J. W., M.B., Ch.B. Glas. Lectr.
3 other Clin. Teachers

Pathology

Green, H. N., M.A. Camb., M.Sc., M.D. Joseph Hunter Prof.
Lytle, W. J., M.B., B.Ch., B.A.O. Belf., F.R.C.S. Lectr. (Surg. P.) and Asst. Curator of Museum.
Harding, H. E., B.A., D.M., B.Ch. Ox. Lectr. and Curator of Museum

Lytle, W. J., M.B., B.Ch., B.A.O. Belf., F.R.C.S. (Surgical P.) Hon. Lectr.
Kirk, Florence S., M.B., Ch.B. Glas., D.P.H. Camb. Demr.
Hermitte, L. C. D., M.B., Ch.B. Edin. Demr.
Barrie, H. J., B.M., B.Ch. Ox. Demr.
1 Research Asst.

Pharmacology

Wayne, E. J., M.Sc., Ph.D., M.D. Leeds, F.R.C.P. Prof.
Krebs, H. A., M.A. Camb., M.D. Hamburg Lectr.

Public Health [Prof.

Rennie, J., M.D. Aberd., D.P.H.
Clark, J., M.D., Ch.B. Aberd., D.P.H., F.R.C.P. Lectr.

Radiology

Grout, J. L. A., F.R.C.S. Ed., M.R.C.S., L.R.C.P., D.M.R.E. Camb. (Radiological Anat.) Lectr.
1 Clin. Teacher.

Surgery

Finch, E. F., M.D., M.S. Lond., F.R.C.S. Prof.
Wilson, J. B. F., M.S. Lond., F.R.C.S. Lectr.
Brockman, R. St. L., M.A., M.Ch. Camb., F.R.C.S. Lectr.
Mouat, T. B., M.D., Ch.M. Edin., F.R.C.S. Lectr.
Yates, H. Blacow, M.A., M.B. Camb., F.R.C.S. Lectr.
Hynes, W., M.B., Ch.B. Leeds, F.R.C.S. Demr. in Op. Surg. and Tutor in Surg.
Fawcett, A. W., M.B., Ch.B. Edin., F.R.C.S.
2 other Clin. Teachers.

Tuberculosis

Turner, H. M., M.D. Manc., D.P.H., M.R.C.P. Lectr.

Vaccination

Chisholm, J., M.B., Ch.B., F.R.C.S. Ed., F.C.O.G. Lectr.

Dentistry

v. also Metallurgy

Roberts, G. L., M.B., Ch.B., B.D.S. Liv. (D. Surg.) Prof.
Law, W. J., L.D.S. R.C.S. (D. Anat. and Physiol.) Lectr.
Osborne, J., L.D.S. Birm. (D. Mech.) Lectr. & Demr.
Waldman, W. H., L.D.S. R.C.S. (D. Prosthetics) Hon. Lectr.
Hull, J., L.D.S. R.C.S. (Dent. Surg.) Asst. Lectr.
Watson, C. T., M.D.S., L.D.S. R.C.S. (Orthod.) Lectr.
Barron, D. C., B.Sc., M.D., Ch.B. Edin. (Med. for Dent. Students) Lectr.
Mouat, T. B., M.D., Ch.M. Edin., F.R.C.S. (Surg. for Dent. Students) Lectr.
Skerritt, J. H., M.D.S., L.D.S. R.C.S. (Op. Dent. Surg.) Clin. Lectr.
Adams, J., M.C., M.B., B.Ch. Belf. Anæsthetist.
Pleasance, R. E., M.D., D.A. Anæsthetist.
Heald, H. R., L.D.S., Sheff. and R.C.S. (D. Histol.) Demr.
4 other Clin. Dental Teachers.

Adult Education

Tutors: 11 members of the Staff and 25 others.

AFFILIATED INSTITUTIONS

BARNSLEY MINING AND TECHNICAL COLLEGE, SCUNTHORPE CENTRAL EVENING TECHNICAL SCHOOL, LINCOLN TECHNICAL COLLEGE, AND CHESTER-

FIELD TECHNICAL COLLEGE. Students proceeding from "Affiliated Institutions" to the Univ. to take courses for an Honours degree or Associateship in the Facs. of Engineering or Metallurgy may receive certain concessions.

GENERAL INFORMATION

University College, Sheffield, incorporated by Royal Charter in 1897, was in 1905 merged in the University of Sheffield constituted by Royal Charter in that year. The city being an important centre of steel, electro-plate, glass, and other manufacturing industries, and in the heart of an extensive coal-mining area, students of Engineering, Metallurgy, Mining, Fuel Technology, and Glass Technology have exceptional opportunities.

LIBRARY (Arts, Pure Science, and Medicine), 154,000 vols. and pamphlets, including collections of books on alchemy and early history of chemistry (J. Spear Parker's), facsimiles of Greek papyri (J. H. Moulton's), literature relating to Polychæte worms (A. T. Watson's), and seventeenth-century tracts, plays, etc. (Sir Chas. Firth's); 556 current periodicals. LIBRARY (Applied Science), 10,000 vols. and pamphlets. Also Special Glass Technology departmental collection.

RESEARCH DEPARTMENT LABORATORIES include: *Engineering* (mech., elec., civ., and mining), with steam, gas, petrol and diesel power plant, dynamometers, high speed engine indicators, air-compressors, refrigerating plant, hydraulic appliances, testing machines, special apparatus for high temperature and repeated stress testing, the testing of cement and concrete, high-speed steel tool-testing lathe, etc., the workshops are specially equipped for the study of modern methods of precision production; Jonas Lab. specially equipped for researches in connexion with all physical tests of materials; special apparatus is in use for research on welded joints, lubrication problems in connexion with journal bearings, the flow of metals, deep pressing and balancing. The *Electrical Engineering* Department has excellent facilities for research in heavy current elect. engin., radio communication, and magnetism. Included in the machine labs. are a three-phase commutator motor, a 25 kVA motor-alternator-fly-wheel set specially designed for research, and a 25 horse-power induction motor with Scherbius type phase-advancer. There are also an a.c. potentiometer, an induction regulator and oil testing equipment for 50 kV. The Edgar Allen Research Laboratory, specially equipped for research on magnetism and allied phenomena, contains a wide variety of measuring instruments and testing appliances, including two high frequency Duddell type oscillographs, a cathode ray oscillograph, and a furnace heated by gas and electricity specially constructed for the investigation of magnetic phenomena for a range of temperatures up to about 1500° C. Means are also available for magnetic testing in very strong fields and in particular for the observation of magneto-striction effects as applied to the testing of the quality of steel. Apparatus for the testing for mechanical flaws and for fatigue of colliery and other wire ropes is also part of the equipment of this lab.; *Civil Engineering*, lab. facilities for investigation of properties and behaviour of materials of construction and for experiments in hydraulics; models of civ. engin. structures and a wide range of surveying instruments and apparatus relating to topographical, cadastral, astronomical and hydrographic surveys, including a 36-inch tunnel transit. A practical field course is held during the Easter vacation; *Mining*, research labs., specially equipped for the study of mine safety and general problems including: machine mining, preparation of coal for the market (sizing, wet and dry cleaning), treatment of ores, mine lighting and gas testing, the use of electricity in mines, mine ventilation, mine surveying and mining

subsidence, and for the conduct of researches on practical problems arising in the coalfield; practical field classes in Mine Surveying and Geology held each session. *Metallurgical*, with plant for experimental melting of steel, including ½-ton electric arc furnace, Ajax-Northrup high-frequency induction furnace, crucible steel-melting house, cupola for melting iron, and a complete equipment for practical foundry work, laboratory equipped for heat treatment of steels and other metals, and equipment for thermal, dilatometric micrographic, X-ray electron-diffraction, spectrographical analysis, and other physical investigations; specially equipped lab. for electro-deposition of metals; lab. with rolling mill draw bench and drawing press for research on cold-working of steel; Non-Ferrous, equipped for the lighter Sheffield trades; a new building opened in 1938 contains a large analytical lab., a physical and photo-micrographical lab., a polishing and macro room, a large metallographical lab., and several labs. set aside for special research work. Their equipment is of the latest type and provides accommodation for an increased number of students. *Glass Technology*, electric, gas, and oil-fired furnaces for melting glass in quantities from the minute scale up to 120 lbs.; several research labs. for the physico-chemical, thermal, electrical, mechanical, spectrographic, and general optical properties of glass; *Fuel Technology*, coke-testing apparatus and specially equipped labs. for research on coal, coke, and gaseous explosion.

OBSERVATORY with 6¼″ equatorial telescope and 2¾″ transit instrument. HOSPITALS available for clinics include 2 general (840 beds), 4 special (1561 beds), and Mental Hospital (2000 beds).

FACULTIES. (1) Arts, (2) Pure Science, (3) Medicine (including the Dental Dept.), (4) Law, (5) Engineering (Depts. of Mech., Elec., Civ., and Mining E., Fuel Tech., Glass Tech.), and (6) Metallurgy (Ferrous, Non-Ferrous, and Founding). *Deans*: (1) Prof. J. D. Craig (Latin), (2) Prof. R. N. Rudmose Brown (Geog.), (3) Prof. G. A. Clark (Physiol.), (4) Prof. D. Browne (Law), (5) Prof. H. W. Swift (Engin.), (6) Prof. J. H. Andrew (Metall.). There is a Univ. Training Coll. Dept. for Teachers for elementary and secondary schools. *Dept. of Glass Technology*: The Dept. housed in a new block of buildings was the first and still remains the best known of the scientific instns. in the world devoted to the study of glass, v. also *supra*. *Faculty of Metallurgy*: The courses in Metallurgy include, in addition to the ordinary subjects of a metallurgical training in Ferrous and Non-Ferrous Metallurgy, special instruction in Foundry Metallurgy and in the use of semi-large scale plant. Post-graduate courses are arranged for graduates in Pure Science or in Metallurgy.

ADMISSION. See Appendix I.

DEGREE COURSES. 3 yrs.—B.A. (with Honours in Archit.—5 yrs., including time spent in an Architect's office), B.Mus., B.Sc., LL.B., B.Met. (3 yrs.' evening courses may under certain conditions be taken by students of 20 yrs. of age in lieu of the 2nd and 3rd yrs.' day courses), B.Eng. ("Sandwich" course 4 yrs.), B.Sc.Tech. ("Sandwich" course 4 yrs.); B.Eng. Honours and B.Sc.Tech. Honours, 3 yrs. after passing Intermed. Examn.; 5½ yrs. (including 3 in the Univ.)—M.B., Ch.B.; 5½ years—B.D.S. Graduates of a Univ. of the U.K. who wish to qualify for special degree of B.A. or B.Sc. with Hons., B.Mus. or LL.B., need, under certain conditions, only attend courses for 2 yrs., if they have pursued a course for 2 yrs. at some approved instn. Graduates of a Univ. of the British Empire who wish to qualify for B.Met., B.Eng., or B.Sc.Tech. with Honours need, under certain conditions, only attend courses for 2 years (for B.Eng. or B.Sc.Tech. pass degree, 1 or 2 yrs.; B.Met. pass degree, 2 yrs.) if they have pursued a course for 2 years at some approved institution.

General Honours B.A. and B.Sc. degrees are conferred (v. pp. 6, 7).

Attendance on approved courses at a Univ. or Coll. recognized for the purpose may be accepted as equivalent to such courses in the Univ. The Univs. of Paris, Caen, Besançon, Grenoble, Lyons, Poitiers, Berlin, Heidelberg, Leipzig, Freiburg, Göttingen, Tubingen, Giessen, and Innsbruck have been recognized in the Faculty of Arts, and the Univ. contributes towards expenses of undergraduates spending a term there.

A Secondary Schools Council, including, in addition to members of the Univ. staff, representatives of local education authorities and school staffs, keeps the Univ. in touch with secondary educn.

HIGHER DEGREES. Obtainable by Bachelors of the Univ. of 1 yr.'s standing—M.A., M.Sc., LL.M., M.Eng., M.Sc. Tech., M.Met.—in each case a candidate must present a thesis approved by the Faculty concerned and, except for LL.M., pass an oral examn. Under certain conditions graduates of other Univs. may become candidates for these degrees. M.D.S. on the results of an examn. written, viva and practical; 3 yrs.' standing—M.D., Ch.M.; 4 yrs.' standing —LL.D.; 5 yrs.' standing—Litt.D., D.Mus., D.Sc., D.Eng., D.Sc.Tech., D.Met.; Ph.D., v. p. 13.

DIPLOMAS. Archit., 5 yrs. (including time spent in an Architect's office); Educn. (after graduation), 1 yr. (special facilities for Pedagogical research); Certif. in Biol., 2 yrs.' pt.-time study; Public Administration, 2 yrs.' Evg. study; L.D.S., 4 yrs.; Glass Technology, 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.); Associateship in Engin., 3 yrs. (Works Pupils and Evening students, 4 yrs.); Associateship in Iron and Steel or Non-Ferrous Met., 3 yrs. (evening students, 4 yrs.); Mining, 3 yrs.' full-time course or 4 yrs.' "Sandwich" course (1st year, full-time at the Univ., Oct. to June inclusive; other years 6 mos. in Colliery and 6 in Univ.; exemption from first yr. obtainable through examn. The Dipl. enables a student to sit for the examn. for a colliery manager's certif. after 5 yrs. and 3 mos. total training, including the time spent in the Univ.). Associateship in Fuel for Evening Students, 4 yrs.

Certificates, Architecture (3 yrs.); Works Pupils in Engin. (3 yrs.); Glass Technology (4 yrs., Saturday or Evening Students).

FEES. Matricn. £2. Registn.: Diploma courses (except L.D.S.) 21s. p.a.; Degree courses (except M.B., Ch.B., and B.D.S.), 25s. p.a. Tuition for degree courses (approximate): B.A. and B.Mus., £26 : 13 : 4 p.a.; B.Sc., £35 p.a.; LL.B., 15 gs. p.a.; B.Eng., B.Met., B.Sc.Tech. (Glass or Fuel), £41 : 10s. p.a.; "Sandwich" course for B.Eng., 4 yrs., £31 : 5s. p.a.; M.B., Ch.B., £238 for 5½ yrs.' course, including hospl. fees; B.D.S., £250 for 5½ yrs.' course, including hospl. fees. Examns.: Interm. and 1st B.Mus., £2; Final Pass Degree, £2; Final General B.A., £2 : 10s.; Final Honours, B.Mus. and General B.Sc., £3; M.B., Ch.B., B.D.S., L.D.S., for each of 1st, 2nd, 3rd, and Final examns., £6. Bachelor's Degree fee, £6 (except M.B., Ch.B., £5; B.D.S., £5).

SCHOLARSHIPS, ETC., FOR GRADUATES. Sorby Research Fellowship (administered by Royal Society), v. App. II. 17; Ironmongers' Company Research Fellowship and Research Scholarships, v. App. II. 4; Alfred Tongue Scholp., £80 for 1 yr. for research in Engin., Met., or Chem.; George Senior Fellowships, £125 p.a., 2 offered annually for research, one in Engin. and one in Met.; several Robert Styring Research Scholps., £100 p.a. for research in ferrous and non-ferrous metals; Cutler's Company Scholp., £100 p.a. for 2 yrs.; 2 Glass Research Fellowships, £150 p.a.; Mechanics Institute Scholp., £50 p.a. for 1 yr., together with fees for courses taken by the holder, for research

in one of the Depts. of the Univ.; Frederick Clifford Scholp., £50 p.a. for 2 yrs., for research in one of the Depts. of the Univ.; Ezra Hounsfield Linley Post-graduate Scholp., £75 to £100 p.a. for 1 yr., for research in Fac. of Engin. or Fac. of Met. or Physics or Chem.; Town Trustees Fellowship, £75 p.a. for 1 yr., for research in one of the Depts. of the Univ.

Note. The number and value of Scholarships and Fellowships are liable to reduction in all cases.

RESIDENCE, ETC. There are two Halls of Residence for men, Crewe (Warden: A. W. Chapman, D.Sc., F.I.C.), £66 p.a., Stephenson (Warden: Rev. G. J. Inglis, M.A.), £80 p.a., and one for women, University (Warden: Miss D. M. Bennett, M.Sc.), £66 p.a. A list is maintained of Lodgings supervised by a Special Committee; board and lodging cost from 25s. to 40s. per week. Athletics ground, about 40 acres. The Union Rep. Council takes a leading part in the social life of the Univ. There is a Students' Union for men and women.

APPOINTMENTS BOARD. Secretary: C. S. Findlay, M.A., LL.B.

There is an OLD STUDENTS' Assocn. which publishes periodically lists giving addresses, occupations, honours, etc.

UNIVERSITY EXTENSION work includes Tutorial classes, Free Extension Lectures, Collaboration (for Adult Educn. Lectures) with the Sheff. Educn. Committee.

Evening Classes in Mechanical, Civil, and Electrical Engineering, in General Science, Metallurgy, Welding, Fuel, and Glass Technology, Building and Handicraft Instruction in Metal Work are held during the 6 months Oct. to April, and Trades Technical Classes are held in association with the Sheffield Trades Technical Societies. 88 additional lecturers and teachers are employed on this work besides the regular staff. For notes on the extent to which these classes are recognized as qualifying for degrees, etc., v. *supra*—Degrees, Diplomas.

Evening Classes are also provided in French, Russian, Spanish, German, Philos., Econ., Secretarial Practice, Acctcy., Law, Public Admn., Archit. and Chem.

PUBLICATIONS. *Calendar* (Oct.), 5s.; *The Arrows*, a Chronicle pubd. once each term, annual subs., 1s. 6d.; *Annual Report* (Nov.); Fac. and Training Coll. Prospectuses; Scholarships pamphlet; *The Sheffield University Magazine.*

THE YEAR 1937–38

BENEFACTIONS. Appeal for funds to meet cost of extensions to Univ. Buildings, provision of a Men's Hall of Residence, additions to Playing Fields, etc., amount to date—£109,432. Appeal for funds to meet cost of new buildings for Dept. of Glass Technology, amount to date—£36,950.

NEW BUILDINGS. The new Sir Robert Hadfield Metallurgical Laboratories were opened by Sir William Bragg, O.M., K.B.E., D.Sc., President of the Royal Society, on Sept. 14th, 1938. Work is being continued on: (*a*) new buildings for Dept. of Glass Technology; (*b*) extensions to the buildings which house the Faculties of Arts, Pure Science, Medicine and Law, and the Edgar Allen Library. A new building has been erected for the Officers' Training Corps.

NEW POST. Lectureship in Bio-Chemistry.

OTHER DEVELOPMENTS. The Playing Fields have been enlarged. The

enlarged grounds were opened by Sir Walter Moberly on June 25th, 1938. *Squash* rackets and *five courts* have been made in the grounds of Crewe Hall. The first number of the *Sheffield University Magazine* was published in December 1937.

CHANGES IN REGULATIONS. Honours School of Latin and Spanish has been instituted. Degree of B.D.S. has been made available as a degree with Honours. Degree of Bachelor of Engin. in Fuel has been instituted.

EXTRA-MURAL WORK. During session 1937–38, 90 Tutorial Classes and 8 University Extension Courses were held.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. The following lectures were given: Dr. G. P. Jones, "The Mediæval Mason," to Economic Society, Univ. of Leeds. Prof. F. H. Shera, "Amateurs and their Music" (3 lectures), in Univ. of London. Dr. Alice Garnett, "Alpine Field Work," to Geog. Club, Univ. of Reading; "Problems in Alpine Geomorphology," to Geog. and Geol. Societies, Queen Mary Coll., London; "Insolation as a Factor influencing Alpine Settlements." to Geog. Club, Cambridge Univ.; "Alpine Landforms and Village Sites," to Geog. Society, Nottingham Univ. Coll. Dr. R. Rado, "Some Theorems about Orientated Graphs," to Mathematical Colloquium, Univ. of Manchester. Prof. G. M. Bennett, "Organic Molecular Compounds," to Chemical Society, Univ. Coll., London. Prof. L. E. S. Eastham, "Adaptation to Water," at Imperial Coll., London. Dr. Edna M. Lind, "Among the Natural Wonders of North America," to Biological Society, Southampton Univ. Coll., and to Botanical Society, Univ. of Liverpool. Lady Mellanby, "An Experimental Attack on the Problem of Dental Disease," to Medical Society, Univ. of Cambridge. Prof. E. J. Wayne, "Patent and Proprietary Medicines," to Medical Students' Society, Univ. of Manchester. Dr. H. A. Krebs, "The Oxidative Breakdown of Carbohydrates in Living Cells" (2 lectures), to Iowa State Coll.; "Oxidation of Carbohydrates," to George Washington Univ.; "Recent Advances in the Intermediary Metabolism of Carbohydrates," to Univ. of Wisconsin; "The Mechanism of the Action of Insulin," to Univ. of Toronto, Univ. of Pennsylvania, and Columbia Univ. Prof. I. C. F. Statham, "Flameproof Electrical Apparatus for Colliery Use," to Mining Students' Association, Univ. Coll., Nottingham. Dr. E. Seddon, "The 200-inch Telescope Disc," to Physical Society, Univ. of Leeds.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. W. B. Anderson (Univ. of Cambridge), "Livy as Historian and Artist." Prof. G. B. A. Fletcher (King's College, Newcastle upon Tyne), "Feeling for Nature in Greek and Latin Literature." W. K. C. Guthrie (Univ. of Cambridge), "Travel and Archæology in Inner Anatolia." Miss H. L. Lorimer (Somerville Coll., Oxford), "The Age of Illiteracy in Greece." Prof. A. Digeon (Univ. of Paris), "Le Théâtre de Jean Giraudoux." Prof. G. Cohen (Sorbonne), "Le Théâtre du moyen âge et les étudiants d'aujourd'hui." Senor Don Rafael Martines Nadal (King's Coll., London), "Federico Garcia Lorca." Dr. A. C. Wood (Univ. Coll., Nottingham), "The Great Trek." Prof. A. Hamilton Thompson (Univ. of Leeds), "The Cistercians in Yorkshire." Sir Alfred Zimmern (Univ. of Oxford), "British Foreign Policy To-day: Principles, Issues and Methods." Dr. H. Goodwin (Univ. of Cambridge), "Britain since the Ice Age." Prof. J. Read (Univ. of St. Andrews), "An Hour among the Alchemists." Sir John Russell (Rothamsted Experimental Station), "The Impact of Science on Country Life." Prof. R. G. Batson (Univ. of Liverpool), "Concrete Carriageways; investigations in hand and required." Prof. H. V. A. Briscoe (Imperial Coll., London), "New Methods for sampling Industrial Dust."

RETIREMENTS. Dr. A. W. Pickard-Cambridge (Vice-Chancellor); Prof. H. B. Bentley (Botany).

RESIGNATIONS. Prof. G. M. Bennett (Chemistry), on appt. as Prof. of Chem., King's College, London. Dr. C. Baier (German), on appt. as Asst. Lectr. in German, Univ. of Birmingham. N. M. Barratt (Electrical Engin.), on appt. as Asst. Lectr. in Electrical Engin., College of Technology, Manchester. Dr. Duncan Cameron (Anatomy). Dr. E. S. Duthie (Pathology), on appt. as May Reader in Medicine, Univ. of Oxford. M. H. Evans (Physics), on appt. as Asst. Secretary of Joint Matriculation Board of Univs. of Manchester, Liverpool, Leeds, Sheffield and Birmingham. Dr. E. Gregory (Metallurgy), on appt. as Chief Metallurgist to Parkgate Iron and Steel Company. J. Harwood (Fuel Technology), on appt. to industrial research post. Dr. F. Holdsworth (French), on appt. as Prof. of French and Head of the Dept. of Romance Languages, Univ. Coll., Nottingham. J. Jenkins (Civil Engin.), on appt. as Head of Civil Engin. Dept., Technical Coll., Bradford. Dr. W. A. McPhee (Staff Tutor for W.E.A. Classes), on appt. as Director of Extra-mural Studies, Univ. of Liverpool. Miss Yvonne Orhand (French). Dr. W. Skyrme Rees (Anatomy). Dr. M. Ritchie (Chemistry), on appt. as Lectr. in Chem., Univ. of Edinburgh. M. Shaw (Mechanical Engin.), on appt. as Lectr. in Mechanical Engin., Univ. of Melbourne. Dr. J. E. Smith (Zoology), on appt. as Lectr. in Zoology, Univ. of Cambridge. J. Sykes (German), on appt. as Lectr. in German at Huddersfield Technical College).

DEATHS. W. H. B. Cameron (Physics); Dr. T. Chetwood (Hygiene).

STUDENTS. Full-time: total, 771, including 84 graduates. Part-time: total, 2769, including 121 graduates.

DEGREES. B.A., 53; B.Mus., 1; M.A., 8; LL.B., 6; LL.M., 1; B.Sc., 27; M.Sc., 1; Ph.D. (Pure Sci. Fac.), 4; M.B., Ch.B., 11; Ph.D. (Med. Fac.), 1; B.Eng., 22; B.Sc. Tech., 4; M.Eng., 3; M.Sc. Tech. (Tech. Sci.), 3; Ph.D. (Engin. Fac.), 5; B.Met., 5; M.Met., 1; M.Sch. Tech. (Metallurgy), 2; Ph.D. (Metallurgical Fac.), 1.

UNIVERSITY OF WALES, CARDIFF

Founded 1893

VISITOR AND PROTECTOR—H.M. THE KING.

CHANCELLOR—H.R.H. THE DUKE OF KENT, K.G.

PRO-CHANCELLOR—The Rt. Rev. THE BISHOP OF MONMOUTH, D.D.

VICE-CHANCELLOR—for biennium ending Aug. 31, 1939, Principal IFOR L. EVANS, M.A. Camb., University College of Wales, Aberystwyth, thereafter Principal C. A. EDWARDS, D.Sc. Manc., F.R.S.

WARDEN OF THE GUILD OF GRADUATES—Rev. HERBERT MORGAN, M.A.

DEAN OF DIVINITY—Prof. THEODORE H. ROBINSON, Litt.D., D.D., D.Th.

REPRESENTATIVE IN PARLIAMENT—*See* p. 18.

REGISTRAR—D. BRYNMOR ANTHONY, M.C., M.A., University Registry, Cathays Park, Cardiff.

SECRETARY TO THE COUNCIL—JENKIN JAMES, O.B.E., M.A.

Telephone: Registry—Cardiff 1776, 1777

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR.

UNIVERSITY COLLEGE OF S. WALES AND MONMOUTHSHIRE, CARDIFF.

UNIVERSITY COLLEGE OF SWANSEA.

SCHOOL OF THE UNIVERSITY

THE WELSH NATIONAL SCHOOL OF MEDICINE.

ASSOCIATED THEOLOGICAL COLLEGES AND SCHOOLS OF THEOLOGY

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH AND BALA. At *Aberystwyth*: Principal—Rev. H. Harris Hughes, B.A., B.D., Prof. of *Christian Doctrine and Ethics of Religion.* Other Profs.: Rev. J. Y. Evans, M.A., B.D., *Church Hist.*; Bleddyn J. Roberts, M.A., B.D., *Hebrew and O.T. Exegesis*; Rev. W. R. Williams, M.A., *New T. Greek*; Rev. D. Morris Jones, M.C., M.A., B.D., *Theism and Philos. of Religion and Hist. of Religions.* At *Bala*: Principal—Rev. David Phillips, M.A.; Rev. Prof. G. A. Edwards, M.A., *Past. Theol.*

BANGOR SCHOOL OF THEOLOGY. Rev. Prof. J. Williams Hughes, M.A., B.D. *N.T. Greek*; Rev. Prof. H. H. Rowley, M.A., D.D., B.Litt., Rev. Principal J. T. Evans, M.A., B.D., D. R. Ap-Thomas, B.A., *Hebrew*; Rev. Principal J. Morgan Jones, M.A., Thomas Richards, D.Litt., R. T. Jenkins, M.A., LL.B., *Ch. Hist.*; Rev. Prof. J. E. Daniel, M.A., *Christ. Doct. and Ethics*; Prof. D. James Jones, M.A., Rev. Glyn Simon, M.A., *Philos. of Religion.*

BRECON, The Memorial Coll. Principal—Rev. T. Lewis, M.A., B.D., *Hebrew and O.T. Exegesis.* Other Profs.: Rev. Joseph Jones, M.A., B.D., *N.T. Greek and Exegesis*; Rev. John Evans, B.A., *Ch. Hist.*; Rev. J. D. Vernon Lewis, M.A., B.D., *Christian Doctrine and Ethics*; Rev. D. J. Davies, B.A., *Theism and Philos. of Religion.*

CARDIFF SCHOOL OF THEOLOGY. Prof. H. J. W. Tillyard, M.A., D.Litt., Rev. Prof. J. Griffiths, M.A., B.D., and Rev. Canon E. W. Williamson, M.A., *New T. Greek and Exegesis*; Prof. T. H. Robinson, Litt.D., D.D., D.Theol., and A. R. Johnson, Ph.D., *Old T. Hebrew and Semitics*; Prof. J. W. Scott, M.A., Ph.D., and Rev. Prof. Edward Roberts, M.A., B.D., *Philos. of Religion, Philosophical Theism and Christian Doctrine and Ethics*; Rev. Principal T. W. Chance, M.A., B.D., *Church History.*

CARMARTHEN, The Presbyterian Coll. Principal—Watkin S. Jones, M.A., M.Sc. Lectrs.: Rev. Prof. M. B. Owen, B.A., B.D., *Ch. Hist.*; Rev. Prof. J. O. Stephens, M.A., B.D., *Christian Doctrine and Phil. of Religion*; Rev. Prof. D. P. Roberts, M.A., B.D., *New T. Greek*; Rev. Prof. D. L. Trevor Evans, B.A., B.D., *Hebrew and Old T. Exegesis.*

GENERAL INFORMATION

The Univ. was founded by Charter, 1893. As the result of an inquiry held by a Royal Commission in 1916–1918, a Supplemental Charter was granted to the Univ. in 1920, which introduced many important changes. For outline of changes, see *Yearbook*, 1929. A further Supplemental Charter was granted in 1932 providing *inter alia* for the institution of the Welsh National School of Medicine as a School of the Univ., and for the recognition of Schools of Theology at the Collegiate centres. The teaching for initial degrees is undertaken by the constituent and associated Colleges and by the Welsh National School of Medicine, and matriculation in the Univ. is open only to students of those institutions; in the case of an associated Theological College, only to students who are graduates of an approved University. The Technical College, Cardiff, is associated for the purpose of providing courses of study for the degree of B.Pharm. The Univ. prescribes conditions under which it awards initial degrees to students of the Colleges and of the School of Med. and conducts the final examns. An Academic Advisory Committee deals with the conditions on which School Leaving certificates are accepted by the Univ. for matriculation, and as relieving a student from repeating in College work done in Secondary Schools, and with other matters lying in the borderland between School and Univ.

ADMISSION. *See* Appendix I.

DEGREES. B.A., M.A., D.Litt.; B.Sc., M.Sc,. D.Sc.; B.Mus., M.Mus., D.Mus.; LL.B., LL.M., LL.D.; M.B., B.Ch., B.Pharm., M.D., M.Ch.; B.D., D.D.; Ph.D. (in Arts, Science, Law, Medicine).

For a first degree 3 yrs. of study are required. The degree in Med. is only open to a graduate in Arts or Science or Law of some British or approved colonial or foreign Univ.; the period of qualification is 6 yrs., of which the last 3 may be spent in an approved School of Med. in the U.K. or in one of the Univs. of Paris, Berlin, Vienna, or the Johns Hopkins Univ. The degree of B.D. (3 yrs.' course) is postgraduate; study is pursued in one of the Associated Theol. Colls. or at the Schools of Theol. of the University Coll. of N. Wales, Bangor, and the University Coll. of South Wales and Monmouthshire, Cardiff, respectively. Study for an Honours degree in Arts, Science, Music, or Law

ordinarily covers 4 yrs. The M.A., M.Sc. and LL.M. may be awarded to graduates of other Univs. approved for this purpose who pursue a scheme of research for at least 2 yrs. in one of the constituent Colls. As regards Ph.D., *see* p. 13.

DIPLOMAS. Education, 1 yr. postgraduate; Public Health (D.P.H.), 1 yr. subsequent to attainment of registrable qualification; Tuberculous Diseases (T.D.D.), 2 yrs. subsequent to attainment of registrable qualification (including 12 mths.' resident appointment in Tuberculosis Hospital and attendance at approved courses of instruction); Agricultural Science or Forestry, 1 yr. for graduates and others with equivalent qualifications; Theology, 3 yrs.; Agriculture, 3 winter sessions of two terms and approved practical work.

FEES: Matricn., £3; examns. qualifying for Bachelor degree, from £6: 15s.; Master, £8; Ph.D., £12: higher Doctorates, £20. *See* separate Colleges for tuition fees.

POSTGRADUATE SCHOLARSHIPS, ETC. The Univ. has funds amounting to over £5000 p.a., including the income of a capital sum of £20,000 given by the late Dr. Samuel Williams of Llanelly, Carms., for the encouragement of research. In addition to 6 Fellowships (annual value £200 each), one of which is a Dr. Samuel Williams Fellowship, tenable for 2 yrs., it awards 20 or more studentships (4 named Dr. Samuel Williams Studentships), on the nomination of the Colls. to students who after graduation engage in work preparatory to research for 2 yrs. Grants to assist research into Welsh language, institutions, etc., are made, preferably to members of the Univ., from the T. Ellis Memorial Fund (capital £1574). *See also* Appendix II.

PRIZES. *The Roberts Welsh Reading Prize* (bound books value £2); *The Sir Samuel Evans Prize* (c. £40) for the most proficient student in the Hons. examns. in Law; *The Prince Llywelyn ap Gruffydd Memorial Prize* (a bronze medal and bound books value £2 : 10s.) for the best M.A. dissertation on a subject relating to the hist. of Wales or the Welsh Marches; *The Brough Prize in Logic and Psychology* (about £40) for the best M.A. dissertation on a subject within the province of Logic or Psychol.; *The John Maclean Prize* (silver medal and bound books, value £2 : 10s.) for the most proficient student in the degree examns. in Obstetr. and Gynæcol.; *The Willie Seager Prizes* in Medicine, Surgery, and Pathology and Bacteriology (a gold medal and books value £4), for the most proficient students in the degree examns. in Med., Surg., and Pathol., and Bacteriol. respectively; *The Hywel Dda Prize* (£20), awarded to the person who has by work published within the preceding 5 calendar yrs. done most to advance the study of ancient Welsh law and custom, or thrown most light upon its origins and history; *The Sir Ellis Griffith Memorial Prize* (books value £5 and a money prize of £10), awarded to the person who has by work published within the preceding 3 calendar yrs. produced the best work dealing with Welsh lit., the arts and crafts of Wales, or with artistic work produced by Welshmen; *The Dr. Ella Brisco Owen Prize* (books value £3 : 3s.), for the most proficient woman student in Anatomy who is a candidate for the degrees of M.B., B.Ch.

THE UNIVERSITY APPOINTMENTS BOARD is concerned with appointments of all kinds (Secretary—J. H. Lloyd, M.Sc.). Address: University Registry, Cathays Park, Cardiff.

1937–38, 389 appointments (men 232, women 157), including: Educational, 233; Business, administrative, etc., 156.

PUBLICATIONS: *Calendar* (Oct.), 4s. 6d. post free. Courses in Div. and in Mus., and Matricn. and Degree Regns., free. Matricn. Examn. Papers, 6d.

Degree Papers: Arts, 6s., Science, 5s., Medicine, 1s., Theology, 9d. Bulletin of Board of Celtic Studies, 5s. Publns. of the Council of Music. The best account of the early history of the Univ. is in *The University of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co.). The introduction to the Report of the Royal Commission on Univ. Education in Wales, 1918, 1s., contains a valuable summary of the history of the University up to 1918.

THE YEAR 1937–38

RECENT DEVELOPMENTS. The Chair of Latin and Independent Lectureship in Greek (Univ. College of Wales, Aberystwyth), converted into a new Chair of Classics. Status of the Independent Lecturer in Pharmacology (Welsh National School of Medicine), raised to that of Professor. Courses in Biblical History and Literature instituted at the Univ. College of N. Wales as part of a scheme of study for the degree of B.A. Amended regulations for the Diploma in Public Health adopted. Agricultural Science recognized as an alternative to General Science as a subject of the Matriculation examination.

HONORARY DEGREES. *LL.D.*—H.R.H. The Duke of Kent, K.G. (Chancellor); The Right Hon. Earl Baldwin, K.G.; The Right Rev. The Bishop of Monmouth (Pro-Chancellor); Sir Franklin Sibly; The Right Hon. Lord Portal; Mr. C. Bryner Jones, C.B., C.B.E.; Sir T. Artemus Jones, K.C. *D.Mus.*—H.R.H. The Duchess of Kent. *D.Litt.*—Professor T. Gwynn Jones. *D.D.*—The Rev. Dr. J. D. Jones, C.H. *D.Sc.*—Mr. Clarence A. Seyler; Professor H. A. Harris.

STUDENTS. Full-time: 2970; graduates pursuing additional degree courses, 235; graduates engaged in research work, 168; graduates pursuing courses of training in Education, 287; undergraduates preparing for a first degree, 2020; other full-time students, 260. Part-time students, 387.

DEGREES. B.D., 11; B.A., 358; M.A., 23; LL.B., 12; B.Sc., 230; M.Sc., 24; D.Sc., 5; M.B., B.Ch., 15; M.D., 2; B.Mus., 6; D.Mus., 1; Ph.D., 5.

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH

Founded 1872

PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL—The Rt. Hon. LORD DAVIES, M.A., LL.D.

VICE-PRESIDENTS—The Rt. Hon. the EARL OF LISBURNE; Sir DAVID CHARLES ROBERTS, LL.D., D.L., J.P.

TREASURER—D. OWEN EVANS, M.P.

PRINCIPAL—IFOR LESLIE EVANS, M.A. Camb. (Vice-Chancellor to 31.8.39).

VICE-PRINCIPAL—Prof. T. C. JAMES, M.A. Camb., D.Sc., F.I.C.

REGISTRAR—J. MORGAN JONES, M.A.

LIBRARIAN—ARTHUR AP GWYNN, M.A.

Telephone: Aberystwyth 346, 347.

TEACHING STAFF

Agriculture, v. *infra*

Arts and Crafts, v. Education

Botany

Newton, Mrs. L., M.Sc., Ph.D. Brist. Prof.
Chater, E. H., B.Sc. Lond., M.Sc. Lectr.
Carter, P. W., M.Sc. Lectr.
Wilson, Irene M., M.Sc., Ph.D. Lond. Asst. Lectr.

Celtic Philol. and Palæog.

Lewis, Timothy, M.A. Manc., B.A. Reader.

Chemistry

James, T. C., M.A. Camb., D.Sc., F.I.C. Prof.
Bury, C. R., M.A., B.Sc. Ox. Sr. Lectr.
Hudleston, L. J., M.C., B.Sc. Lond. Sr. Lectr.
Davies, D. Gwynne, B.Sc., Ph.D. Asst. Lectr.

Classics, v. Greek and Latin

Economics and Pol. Science, v. also Politics

Forrester, R. B., M.A. Edin., M.Com. Manc. Prof.
George, Percy, M.A. Camb., M.Sc. Lectr.
Morris, J. H., M.Sc. (Econ.) Lond. Lectr.

Education (incl. Art and Crafts)

Chapple, C. R., M.A. Lond. Prof.
Pinsent, A., M.A. Lond., B.Sc. Sr. Lectr. and Master of Method.
Jones, Gwenan, M.A., Ph.D. Minn. Sr. Lectr. and Mistress of Method.
Green, G. H., M.A., B.Sc., Ph.D. Lond., B.Litt. Ox. Lectr.
Edwards, Ifan ab O., M.A. Ox. and Wales Lectr.
Creed, Rachel M., M.A. Ox. Lectr.

Saer, Hywela A., Ph.D. Lond., B.A. Asst. Lectr.
Gapper, R. L., B.Sc., A.R.C.A. Instr. (Art and Crafts), Curator of Museum.
Bird, H., A.R.C.A. Asst.
Davies, Gwenhwyfar Pt.-time Asst.
2 Instrs. in Physical Training and 1 in Needlework.

English Language and Lit.
Atkins, J. W. H., M.A. Camb. and Lond. Rendel Prof.
Winstanley, Lilian, M.A. Manc. Sr. Lectr.
Earnshaw, J., M.A. Manc. Lectr.
Palmer, J. L., M.A. Camb. Asst. Lectr.

French Lang. and Lit. and Romance Philol.
Barbier, J. L. A., L. ès L. Paris, O.A., Chev. Lég. d'H. Prof.
Thomas, A. B., D. de l'U. Lyon, M.A. (Phonetics) Sr. Lectr.
Phillips, Eva M., D. de l'U. Paris, M.A. Lectr.
Williams, J. Killa, M.A. Asst. Lectr.

Geography and Anthropology, v. also Oceanography
Forde, C. D., B.A., Ph.D. Lond. Gregynog Prof.
Whitehouse, W. E., M.Sc. (Geog.) Special Lectr.
Bowen, E. G., M.A. Lectr.
Fogg, W., M.A. Manc. Lectr.

Geology
Lewis, H. P., M.A. Camb. Prof.
Challinor, J., M.A. Camb. Lectr.
Platt, J. I., M.Sc. Manc. Lectr.

German
Evans, David, M.A. Prof.
Edwards, Handel B., M.A. Asst. Lectr.
Williams, T. P., M.A. Asst. Lectr.

Greek and Latin
Jenkins, E. D. T., M.A. Ox. Prof. of Classics.
Duff, A. M., M.A., B.Litt. Ox. Lectr.
Hudson-Williams, A., B.A., M.Litt. Camb. Asst. Lectr.
Hopper, R. J., B.A., Ph.D. Camb. Asst. Lectr.
Wild, L. W., B.A. Ox. and Sheff. Asst. Lectr.

History
Treharne, R. F., M.A., Ph.D. Manc. Prof.
Herbert, Sydney, M.A. (Mod. Hist.) Sr. Lectr.
Johnston, S. F. H., M.A., B.Litt. Ox. Asst. Lectr.

History, Colonial, v. Politics, International

History, Welsh
Lewis, E. A., D.Sc. Lond., M.A., D.Litt. Sir John Williams Prof.
Roderick, A. J., M.A. Research Lectr.

Law, English
Levi, T. A., M.A., B.C.L. Ox., LL.B. Lond. Prof.
Wing, R. A., B.A., LL.B. Camb. Sp. Lectr.
Shannon, N. P. Sp. Lectr.
Winder, W. H. D., M.A. Ox., LL.M. Lond. Asst. Lectr.

Logic and Philosophy
Aaron, R. I., D.Phil. Ox., M.A. Prof.
Davies, Dan, Ph.D. Glas., M.A. Lectr.
Jones, J. R., M.A. Asst. Lectr.

Mathematics, Applied
Lewis, Thos., M.Sc. Indpt. Lectr.
Asst. Lectrs.
Meyler, Dorothy S., M.Sc.
Easthope, C. E., M.Sc.

Mathematics, Pure

Morton, V. C., M.A. Ox. Prof.
Williams, D. R., Ph.D. Stras., M.A. Lectr.
Meyler, Dorothy S., M.Sc. Asst. Lectr.

Music

de Lloyd, David J., Mus.D. Dub., B.A., B.Mus. Gregynog Prof.
Clements, Charles, B.Mus., F.R.C.O. Lectr.

Executants and Teachers

Allen, W. R., A.R.C.M. (Singing).
Davies, H., A R.A.M. (Violin).
2 Assts.

Oceanography

Jenkins, J. Travis, Ph.D. Kiel, D.Sc. Hon. Lectr.

Palæography and Diplomatics

Lewis, Prof. E. A. Lectr.

Philosophy, v. Logic

Physics

Williams, E. J., Ph.D. Camb. and Manc., D.Sc. Prof.
Davies, R. M., D.Sc. Lectr.
Jones, I. C., M.Sc. Lectr.
Richards, D. A., M.Sc. Lond. Asst. Lectr.
1 Tech. Asst.

Politics, International

Carr, E. H., C.B.E., M.A. Camb. Wilson Prof.
Parry, E. Jones, M.A., Ph.D. Lond. (Colonial Hist.) Lectr.
Routh, D. A., M.A. Ox. Lectr.

Welsh Lang. and Lit. [Prof.

Parry-Williams, T. H., D.Litt. Ox., Ph.D. Freib., M.A., D.Litt.
Jones, D. J. Gwenallt, M.A. Lectr.
Jones, Thos., M.A. Asst. Lectr.

Welsh History, v. History, Welsh

Zoology, v. also Oceanography.

Laurie, R. D., M.A. Ox. Prof.
Watkin, E. E., B.Sc., Ph.D. Lectr.
Rees, Florence G., B.Sc., Ph D. Lectr.
Jones, J. R. E., B.Sc., Ph.D. Asst. Lectr.
Jenkins, J. R. W., M.Sc. (Entomology) Spl. Lectr.

Agriculture

Griffith, J. Jones, B.Sc. Prof.
Phillips, R., M.Sc., A.I.C. Lectr.

Agic. Botany

Stapledon, Sir R. G., C.B.E., M.A. Camb. Prof.
Sampson, Kathleen, M.Sc. Lond. Lectr.
Ellison, W., B.Sc., Ph.D. Durh. Asst. Lectr.

Agric. Chemistry

Fagan, T. W., M.A. Camb., F.I.C. Prof. and Advisory Chemist.
Davies, R. O., M.Sc. Lectr.

Investigatois

Griffiths, J. R., B.Sc.
Davies, R. Probert, M.Sc.
Jones, J. T., B.Sc.

Agric. Economics

Ashby, A. W., M.A. Ox. Prof. and Adviser.
Howell, J. Pryse, M.Sc. Asst. Adviser.
Jones, W. H., M.Sc. Marketing Asst.
Harry, E. Llewelyn, M.Sc. Marketing Asst.

Tech. Assistants

Smith, J. H., M.Sc.
Phillips, J. R. E., M.A.
Evans, H. E., B.Sc.
Griffiths, J. D., N.D.D.
Williams, C. Trevor, N.D.A.

Agric. Zoology, v. Zool. *supra*

Thomas, S. B., M.Sc. Advisory Dairy Bacteriologist
Davies, D. W., B.Sc. Advisory Mycologist

Jenkins, J. R. W., M.Sc.
Advisory Agric. Zoologist

Dairying [Asst. Lectr.

Lewis, John, N.D.A., N.D.D.

Tudor, Jane A., B.Sc., N.D.D. (and Dairy Bacteriol.)
Asst.

Instructors in: Vet. Hyg., Agric. Book-keeping and Agric. Engin.

Poultry Manager.

Plant-Breeding Station

Stapledon, Prof. Sir R. G., C.B.E., M.A. Camb. Director.

Investigators

Jenkin, T. J., D.Sc.

Williams, R. D., M.Sc.

Davies, Wm., M.Sc.

Jones, E. T., M.Sc.

Evans, Gwilym, M.Sc.

Jones, Ll. I., B.Sc.

Western, J. H., B.Sc., Ph.D.

Griffith, Moses, M.Sc.
Lands Director, Cahn Hill Improvement Scheme.

Thomas, M. T., B.Sc.
Grassland Adviser.

Beddows, A. R., M.Sc. Asst.

Milton, W. E. J., M.Sc., N.D.A.
Asst.

Hughes, G. P., B.Sc. Asst.

University Extension

Morgan, Rev. Herbert, M.A. Ox., B.A.
Director of Extra-mural Studies.

Residential Tutors

Griffiths, T. Hughes, M.A., Dr. Pol. Sc. Giessen.

Lewis, D. Hughes, B.A.

Rees, Alwyn D., M.A.

37 Tutors.

GENERAL INFORMATION

Founded in 1872, the College was incorporated by Royal Charter in 1889, and is a constituent College of the Univ. of Wales. Its main building and Students' Hostels are on the sea front, facing Cardigan Bay.

LIBRARIES. College, 85,000 vols. and 8500 pamphlets, including the collection of Sir John Rhys. Access to the National Library of Wales, founded in 1907, Copyright Library since 1912, over 750,000 printed books, 18,000 manuscript vols., about 250,000 documents, and some thousands of maps, prints and drawings, rich in Welsh and other Celtic material. MUSEUMS: Archæol., Bot., Chem., Ethnog., Geog., Geol., Zool., Gallery of Arts and Crafts. The Chemistry LABORATORIES, erected in 1907, are the most complete in Wales. Agric. Expl. and Plant-breeding Stations (v. *also* App. III. A. I. (a)), Cahn Hill Improvement Scheme and Training Farm.

FACULTIES. Arts, Science, Rural Sci., Law, Music. *Departments*: Agriculture, Teaching (Elem. and Secondary), Art and Handicraft, Extra-mural, Phonetics. A special feature is the ample provision for instruction and research in International Politics and in Agriculture.

Courses in Arts, Science, Rural Sci., Law, Music, for Degrees of the Univ. of Wales and for University Diplomas in Agricultural Science and Education.

College Diploma courses: Anthropology, 2 yrs.; Dairying, 2 yrs.; Music, 2 yrs.; Geography, 1 yr.; Biology, 1 yr.; Art, 2 yrs.; Handicraft, 2 yrs.

Courses in Science meet the requirements of the first year of Medical study, the examns. of the Pharmaceutical Society, and other bodies.

Postgraduate courses (1 yr.) for Teachers (Elem. and Secondary), and in Agric.

RESEARCH work is systematically carried on in all Departments.

ANNUAL FEES for tuition in Arts, £15; Science, £20; Research students, 6 to 10 gs.; Registration, £1.

SCHOLARSHIPS FOR GRADUATES. 5 for Research, value £25 to £150, open to students of the College. *See also* under Univ. TRAVELLING GRANTS for visiting Continental institutions, total, £500. Grant varies according to expenses incurred. Sir John Williams Research Studentships for Welsh Studies.

RESIDENCE. There are two hostels for women (Alexandra Hall and Carpenter Hall) accommodating about 300 students. Enquiries should be addressed to Mrs. Guthkelch, B.A., Senior Warden of the Halls of Residence and Warden of Alexandra Hall. Fee for board and residence, £52 : 10s. to £65 : 12s. p.a.

MEDICAL SCHEME. Comprehensive system of insurance compulsory for all full-time students; capitation fee, 12s. 6d. p.a.

UNIVERSITY EXTENSION. Local lectures and short courses in Agric. subjects; Dairy School; Extra-mural classes in many subjects. The Advisory Staff of the Dept. of Agric. give advice to farmers, fruit growers and poultry keepers.

AFFILIATION. The Coll. is recognized by Ox. and Camb., and by Edin. and N.U.I., by certain of the medical examining bodies, by the Royal College of Veterinary Surgeons and by the Institute of Chemistry.

PUBLICATIONS.: *Prospectus* (Feb.); *Reports* (Oct.), 1s. 2d., post free; Students' Magazine, *The Dragon*; Inaugural Lectures.

THE YEAR 1937–38

BENEFACTIONS. For New College Buildings: From Old Students' Association Appeal Fund, £1350; Mr. James G. Mitchell, £20. For Plant Breeding Station: Sir Julien Cahn, Bart. (Cahn Hill Improvement Scheme), £3000; Sir Laurence Philipps, Bart., £200; Mr. D. Owen Evans, M.P., £100; Hereford County Council, £25; miscellaneous, £6. Other gifts, about £270.

NEW BUILDINGS. Progress is being made with the new buildings scheme; the Agricultural Research Block and Dairy Department are nearing completion.

EXTRA-MURAL WORK. Classes were held at 53 centres (17 three-year Tutorial Classes, 6 Preparatory Classes, and 30 Extension Courses).

PUBLIC LECTURES AT THE COLLEGES, ETC. Dr. Lascelles Abercrombie (Oxford), "Some Aspects of Modernism in English Literature" (a series of 4 Gregynog Lectures.) Prof. Emil Wolff (Hamburg), "Shakespeare in Germany." Prof. E. H. Carr, "Impressions of a Visit to Russia and Germany," "Great Britain as a Mediterranean Power," "Current International Events." Prof. E. V. Appleton (Cambridge), "Exploring the Upper Atmosphere." Mr. Iorwerth C. Peate, M.A. (National Museum of Wales), "Folk-Culture" (8 lectures). Mr. S. C. Kaines Smith (Keeper of the City Museum and Art Gallery, Birmingham), "English Eighteenth-Century Portrait Painting." Prof. R. G. Stapledon, "Grasslands and the Rural Problems of Wales." Prof. W. J. Gruffydd, "Marddoniaeth ddiweddar Cymru a'i chefndir." Mr. Gilbert Ryle (Oxford), "Chance, Luck and Chances."

INTERCHANGE OF TEACHERS. The following lectures were given under the scheme for the interchange of Teachers: Prof. B. Farrington (Swansea), "Religion and Science in Classical Antiquity" (3 lectures); Mr. Tom Parry

(Bangor), " Y Llawysgrifau Barddoniaeth " (3 lectures) ; Prof. Mary Williams (Swansea), " The Celtic element in the poems of Chretien de Troyes " (3 lectures) ; Prof. W. J. Roberts (Cardiff), " Politics and Economics in Plato and Aristotle " (3 lectures) ; Dr. N. H. Hartshorne (Swansea), " Optical Crystallography " (5 lectures).

Members of the College staff lectured at the other Constituent Colleges.

RESIGNATIONS. Prof. Gwilym Owen (Physics), Prof. E. J. Wood (Latin), Th. Jolles (German).

STUDENTS. Full-time, 710 ; graduates, 133 ; preparing for first degree, 515 ; other full-time, 62. Part-time and occasional, 13. Pre-matriculation, 36. Extra-mural, 1038.

DEGREES OBTAINED. B.A., 83 ; M.A., 7 ; LL.B., 12 ; B.Sc , 52 ; M.Sc., 7 ; Ph.D., 2 ; B.Mus., 3.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

Founded 1885

PRESIDENT—The Rt. Hon. LORD HOWARD DE WALDEN, LL.D.
CHAIRMAN OF THE COUNCIL—G. A. HUMPHREYS, J.P., F.S.A.
PRINCIPAL—D. EMRYS EVANS, M.A., B.Litt. Ox.
SECRETARY AND REGISTRAR—E. H. JONES, M.A. Glas.
LIBRARIAN—T. RICHARDS, M.A., D.Litt.

Telephone: Registrar—Bangor 501.

TEACHING STAFF

Agriculture, v. *infra*

Applied Electricity and Hydro-Electric Engineering

Williams, W. E., B.Sc. Indpt. Lectr.
Davies, M. W. H., B.Sc. Asst. Lectr.
Morris, D. G. O., B.Sc. Temp. Asst. Lectr.

Botany

Thoday, D., M.A., Sc.D. Camb. Prof.
Davey, A. Jane, M.Sc. Lond. Lectr.
Woodhead, N., M.Sc. Manc. Lectr.

Chemistry

Simonsen, J. L., D.Sc. Manc. F.R.S., F.I.C. Prof.
Bradfield, A. E., Ph.D., D.Sc. Lectr.
Angus, W. Rogie, M.A., B.Sc. Aberd., Ph.D. Lond., F.I.C. (Physical C.) Lectr.
Ramage, G. R., B.Sc. Ox., M.Sc., Ph.D. Durh. Asst. Lectr. & Demr.

Classics

Hudson-Williams, T., M.A., D.Lit. Lond. (Greek) Prof.
Thomson, H. J., M.A. Ox., D.Litt. St. And. (Latin) Prof.
Lees, Miss M. E., M.A. Vict. (Latin) Lectr.
Browne, R. A., Ph.D. Camb., M.A. Lectr.

Economics

Rees, J. Morgan, M.A. Prof.
Jolliffe, Miss M. F., M.A. Lectr.
Black, D., M.A., Ph.D. Glas. Asst. Lectr.

Education

Archer, R. L., M.A. Ox. Prof.
Elias-Jones, Megan, M.A. Lectr.
Thomas, Miss M. Lectr.
Williams, Ivor, B.Sc. Lectr.
Rogers, J., Ph.D. Asst. Lectr.
Instructors in Drill, Handwork, and Rural Science

English Lang. and Lit.

Wright, H. G., M.A. Vict. Prof.
King, R. W., M.A. Lond. Lectr.
Davies, C., M.A. Lectr.

Forestry

Thomson, T., M.Sc. Indpt. Lectr.
Jerram, M. R. K., M.C. Asst. Lectr.
Molesworth, Col. F. C. Sp. Lectr.

French and Romance Philol.

Jones, P. Mansell, M.A. Camb. and Wales, B.Litt. Prof.

Cariou, Mlle. H. Lectrice.
Hutchings, Gweneth, M.A., D.Phil. Ox. Asst. Lectr.

German and Teutonic Philol.
Cunningham, Kathleen, M.A. Dub., Ph D. Bonn Indpt. Lectr.
Uffenorde, Almut, Ph.D. Münster Lektorin.

History, v. also Theol.
Dodd, A. H., M.A. Ox. Prof.
Thomas, J. Alun, Ph.D. Lond., M.A. Lectr.
Pierce, T. J., M.A. Liv. (Mediæval H.) Lectr.
Parry, R. J., M.A. (session 1938–9) Temp. Asst. Lectr.

History, Welsh
Jenkins, R. T., M.A., LL.B. Camb., B.A. Indpt. Lectr.

Law
(In co-op. with Univ. Coll., Aberystwyth. *See* thereunder.)

Logic and Philosophy, v. also Theol.
Jones, D. James, M.A. Prof.
Lewis, Miss G. A., M.A. Lectr.
Lewis, H. D., B.Litt. Ox., M.A. Asst. Lectr.

Mathematics
Berwick, W. E. H., M.A., Sc.D. Camb. Prof.
Phillips, E. G., M.A. Camb., M.Sc. Manc. Lectr.
Newing, R. A., B.Sc. Asst. Lectr.

Music
Davies, E. T., F.R.C.O. Hon. R.C.M. Director.
5 Executants and Teachers.

Philosophy, v. Logic and Theol.

Physics
Owen, E. A., M.A. Camb., D.Sc. Lond., F.Inst.P. Prof.
Mainstone, P.A., M.Sc. Bris. Lectr.
Jones, H. Irvon, M.Sc. Lectr.
Asst. Lectr. & Demr.
Wright, P., Ph.D.

Semitic Languages
Rowley, Rev. H. H., M.A. Bris., D.D. Lond., B.Litt. Ox. Prof.
Ap-Thomas, D. R., B.A. Wales and Ox. Asst. Lectr.

Theology, v. also Semitic Langs.
Spl. Lectrs.
Jones, Rev. Principal J. M., M.A. (Church Hist.).
Evans, Rev. Principal J. T., M.A., B.D. (Old Test. and Semitics).
Simon, Rev. G., M.A. (Philos. Theism).
Daniel, J. E., M.A. (Christian Doctrine).
Hughes, Rev. Prof. J. Williams, M.A., B.D. (New Test.).
Richards, T., M.A., D.Litt. (Church Hist.).

Welsh
Williams, Ifor, M.A., D.Litt., F.B.A. Prof.
Parry, R. W., M.A. Lectr.
Parry, T., M.A. Lectr.
Williams, J. E. C., M.A. Res. Lectr. in Welsh Studies.

Zoology
Brambell, F. W. Rogers, B.A., Ph.D. Dub., D.Sc. Lond. Prof.
Jackson, L. H., B.Sc. Lond. Lectr.
Cragg, J. B., M.Sc. Durh. Asst. Lectr.

Agriculture
White, R. G., M.Sc. Leeds Prof.
Roberts, E. Jones, M.A. Camb., M.Sc. Lectr.
Williams, H. M., M.Sc. Temp. Asst. Lectr.

Agric. Botany [Indpt. Lectr.
Roberts, R. Alun, Ph.D.
Whitehead, T., M.Sc., Ph.D., A.R.C.S.
(Plant Pathology) Adviser.
Walker, R. G., M.Sc.
Student Asst.

Agric. Chemistry [Prof.
Robinson, G. W., M.A. Camb.
McLean, W., B.A., B.Sc. Dub., A.R.C.S.I., A.I.C. Lectr.
Williams, Rice, M.Sc. Asst. Lectr.
Bould, C., M.Sc
Res. Worker on Hortic. Soils.
3 Res. Assts.

Agric. Economics
Ashby, A. W., M.A. Ox.
Spl. Lectr.

Agric. Zoology
Thomas, Ieuan, Ph.D. Camb., M.Sc. Adviser.
Hickson, Miss P., N.D.D.
Dairy Bacteriologist.
Rowlands, W. T., M.R.C.V.S.
Vet. Advisory Officer.
Brownlie, W. M., B.Sc., D.V.S.M., M.R.C.V.S.
Asst. Vet. Adviser.
Currie, J. F., N.D.A.
Supervisor of Seed Potato Scheme.
Instrs. in Bldg. Constn., Bookkeeping and Vet. Hyg.
County Staffs: 5 Organizers; Instructors in Cheesemaking, Dairying, Horticulture and Poultry-keeping.

University Extension

Whole-time Lectrs.: Jones, E. J., M.A.; Rogers, E., M.A.; Jones, A. E., B.A.; Jenkins, E., B.A. Half-time: Parry, R. W., M.A.; Pierce, T. Jones, M.A. Many other members of the Staff give single courses or combine in giving a series.

GENERAL INFORMATION

This College, constituted by Royal Charter in 1885, was made a constituent College of the University in 1893.

LIBRARIES. General, 100,000 vols. (Theology a strong feature). Welsh, 50,000, including the largest and best-equipped collection of Welsh periodicals in existence. MUSEUMS include: (*a*) a Zoological section comprising a large collection of vertebrate and invertebrate animals and a collection of human bones representative of the different races of mankind; (*b*) a collection of Welsh domestic and agricultural bygones together with Roman finds from Segontium and Capel Curig. FARM, 675 acres, chiefly sheep pasturage. Dairy.

Special facilities are offered for research in Welsh Lang. and Lit., Political, Social, Econ., and Religious Hist. of Wales, and allied subjects.

COURSES. B.A. degree courses include among others a "special scheme of study based on the idea of citizenship." There are courses in Theology for B.D. degree, and full courses for the B.Sc. in Agric. and Rural Economy, Forestry, Applied Electricity and Hydro-Electrics, as well as in Pure Sc. College *Diploma* courses in Theology and Agric. (3 yrs.), in Forestry and Elec. Engineering (2 yrs.) and a 1 yr. Certificate Course in Agric. The Agric. course is recognized by the Surveyors' Instn. as qualifying for Students' Proficiency examn. Courses for College Certificates (2) in Music. Other courses: First year of Med. study; 1 yr. postgraduate course for Teachers.

FEES. Registration, 1 g. per session. Tuition, per session: Arts, £15; Science, £20; Medicine, 1st year (including lab.), £22; Postgraduate courses,

non-lab., 6 gs.; with lab., 10 gs.; Agric., etc., diploma course, winter session, £15 : 15s. (2 terms); Farm Practical Instruction, £5 (or 2 gs. a term). College societies (compulsory), £2.

SCHOLARSHIPS, ETC., FOR GRADUATES. Several College awards ranging in value from £25 to £100, open to students of the College. Loan fund (£458) for helping poor students to complete courses; also University Studentships of £100 and Fellowships of £200. *See* also under Univ.

RESIDENCE. Plas Menai (Warden: Prof. R. L. Archer) provides accommodation for 35 men (fee, £43 p.a.) and University Hall with its annexes for 100 women (fee £49 to £61). The Warden of Women Students, Miss Muriel O. Davis, is also Warden of University Hall. Total cost of living in lodgings and tuition in Bangor from £70 to £80 p.a.

WARDEN OF WOMEN STUDENTS. Muriel O. Davis.

UNIVERSITY EXTENSION, ETC. Local lectures in Literature, Econ., and Agric.; small lending libraries; Tutorial and Preparatory Classes in six counties. The Advisers in Agriculture conduct experiments and give expert advice to farmers and others.

PUBLICATIONS. *Calendar* (Oct.), 2s. 6d.; *Students' Handbook*, 1s.; *College Magazine*, one issue per term, 1s.; Prospectus free.

THE YEAR 1937–38

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. J. G. Gazley (Dartmouth College, New Hampshire, U.S.A.), "Arthur Young and English Agriculture in his Day"; Prof. G. S. Veitch (Liverpool), "Election Humours in the Eighteenth Century"; Prof. J. H. Orton (Liverpool), "Periodicity in Breeding in Marine Animals"; Prof. C. K. Ingold (London), "Exchange between Light and Heavy Hydrogen"; Prof. W. Garstang (Leeds), "Crabs: A study in Adaptation"; Mr. Iorwerth Peate (Cardiff), "Beth yw Diwylliant Gwerin?"; Prof. J. F. Mountford (Liverpool), "The Reading of Latin Verse"; Prof. J. Ritchie (Edinburgh), "Man and the Birds" (Kennedy Orton Lecture); Mr. E. Jones Parry (Aberystwyth), "An Ambassadress at Large"; Prof. Lily Newton (Aberystwyth), "Vegetable Dyes"; Prof. G. R. Glimo (Newcastle upon Tyne), "Some New Aspects of the Organic Chemistry of Nitrogen"; Dr. J. A. Fraser Roberts (Bristol), "The Application of Biometry and Genetics to investigations of a Human Population"; Dr. Dilwyn John (British Museum), "Antarctic Life"; Prof. D. Brunt (London), "Gliding and Soaring Flight: An Exercise in Practical Meteorology"; Miss Mary D. Waller (London School of Medicine), "Production of Vibrations by means of Solid Carbon Dioxide"; Prof. H. Levy (London), "The Philosophical Implications of Modern Science"; Prof. R. Whiddington (Leeds), "Experiments on Electron Impact in Gases"; Prof. J. W. Harvey (Leeds), "Problems of Memory-knowledge."

UNIVERSITY EXTENSION. 23 Tutorial Classes, 13 Preparatory Classes, and 13 University Extension Courses, with 1023 students (259 women), chiefly in Lit., Econ., Social and Political Studies, and Music.

The Ballard Mathews Lectures were delivered by Don Salvador de Madariaga on "Strength and Weakness of International Institutions." The Rowland Hughes Art Lectures were given by Prof. W. G. Holland (Liverpool) on "The Creation of Greek Architecture." Sir John E. Lloyd gave 3 lectures in Welsh on "Cyfreithiau'r Hen Gymry," and Dr. J. Lloyd William, 3 lectures on "Welsh Music."

The Special Lecturers in the Faculty of Theology for the session were Prof. C. J. Cadoux (Oxford), 4 lectures on " Christian Faith in its relation to History and to Truth," and the Rev. Principal H. Wheeler Robinson (Oxford), 4 lectures on " The Theology of the Old Testament."

RESIGNATIONS. Prof. C. A. Campbell (Philos.), on appt. as Professor of Logic and Metaphysics in Univ. of Glasgow. Miss Alice Paterson (Permanent Lecturer in Education and Tutor to Women Students), owing to ill-health. T. W. Thacker (Hebrew), on appt. as Reader in Semitic Languages in Univ. of Durham. Dr. K. Urwin (French), on appt. as Assistant Lecturer in French at Cardiff. L. E. Hughes (Assistant Veterinary Investigation Officer), on appt. to Veterinary Research Staff of Ministry of Agriculture.

STUDENTS. Full-time: 512, including 133 graduates. Part-time: 36.

DEGREES. B.D., 4; B.A., 64; M.A., 4; B.Sc., 34; M.Sc., 5; Ph.D., 1 D.Sc., 2.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

Founded 1883

PRESIDENT—The Rt. Hon. LORD GLANELY, LL.D., D.L., J.P.
TREASURER—LIONEL D. LEWIS.
PRINCIPAL—J. F. REES, M.A. Ox., M.Com. Birm.
REGISTRAR—LOUIS S. THOMAS.
LIBRARIAN—S. O. MOFFET, M.A. Manc.

Telegrams: Coleg, Cardiff.
Telephone: Cardiff 340.

TEACHING STAFF

Agriculture

Advisory and Research Staff
Rees, J., B.A., M.Sc. (A. Botany).
Edwards, E. E., M.Sc. (A. Zool.).
Bisset, N., M.R.C.V.S. (Vet. Sc.).

Anatomy

West, C. McL., M.C., Sc.D., M.B., B.Ch., B.A.O. Dub. Prof.
Burlend, T. H., M.A. Camb., B.Sc. Lond. (Histol. & Embryol.) Lectr.
Yoffey, J. M., M.Sc., M.D. Manc., F.R.C.S. Lectr.
Mogg, R. A., M.B., B.Ch. Asst. Lectr. and Demr.
Strangeways, Dorothy H., M.A. Camb., Ph.D. Leeds (Histol.) Asst. Lectr.

Archæology

Nash-Williams, V. E., M.A. (Keeper of Dept. of A. in Nat. Museum) Lectr.

Architecture

Purchon, W. S., M.A. Lond., A.R.I.B.A. Lectr.

Botany

McLean, R. C., M.A. Camb., D.Sc. Lond., F.L.S. Prof.
Martin, Mary S., B.Sc. Edin. Lectr.
Cook, W. R. Ivimey, Ph.D. Lond., F.L.S. Asst. Lectr. and Demr.
Audus, L. J., M.A., Ph.D. Camb. Asst. Lectr. and Demr.
Hyde, H. A., M.A. Camb., F.L.S. (Keeper of Bot. in Nat. Museum) (Econ. Bot.) Hon. Lectr.
Quastel, J. H., D.Sc. Lond., Ph.D. Camb., F.I.C., A.R.C.S. (Biological Chem.) Hon. Lectr.

Chemistry, v. also Physiol.

Jones, W. J., D.Sc. Manc., M.Sc., F.I.C., F.Inst.P. Prof.
Bassett, H. Ll., M.A. Camb., B.Sc. Lond., A.I.C. (Organic C.) Lectr.
Cullinane, N. M., D.Sc. N.U.I., M.Sc., F.I.C. Lectr.
Bowden, S. T., D.Sc. Leiden, B.Sc., Ph.D. Lectr.
Davies, W. Cule, Ph.D., D.Sc., A.I.C. Lectr.

Classics

Tillyard, H. J. W., M.A. Camb., D.Litt. Edin. (Greek) Prof.
Austin, R. G., M.A. Ox. (Latin) Prof.

Williamson, Rev. Canon E. W., M.A. Ox.
(New Test. Gk.) Hon. Lectr.
Freeman, Kathleen, M.A. Lectr.
Richardson, L. J. D., M.A. Dub. Lectr.
Percival, G., M.A. Camb. Asst. Lectr.

Economics and Pol. Science

Roberts, W. J., M.A. Ox. Fulton Prof.
Parris, S. C., B.Sc. (Econ.) Lond. Lectr.

Education

Wheeler, Olive A., D.Sc. Lond., M.Sc. Prof.

Lecturers

Jones, E. J., M.A. (and Welsh Method).
Barke, Ethel M., M.A. Dub., A.M. Columbia.
Amos, Rev. A. D., B.Sc. Lond., M.A. (and Master of Method).
Morris, Eliz. M. D., M.A. Lond., B.A.
Williams, D. E. Parry, B.Sc., M.Mus.
Moore, Mina J., M.A. Liv., D. de l'U. Strasb.
Oppenheimer, Mary. Asst. Lectr.
Seth, George, M.A., B.Ed., Ph.D. Edin. Asst. Lectr.
Birks, F. H. Asst. Lectr.
Smith, George Pugh, M.Sc., Ph.D. Birm. Asst. Lectr.

Engineering

Thomas, W. Norman, M.A., D.Phil. Ox., M.Sc. Birm. Prof.
Thomas, S., M.Sc. Lectr.
Foster, P. F., B.Sc. Lond., M.Sc. Lectr.
Sheen, F. V., B.Sc. Asst. Lectr. & Demr.
Bannister, J. L., B.Sc. Tech. Manc. Asst. Lectr. & Demr.
1 Technical Asst.

English Lang. and Lit.

Llewellyn, E. C., M.A., B.Litt. Ox., B.A. Prof.
Jones, Gwyn, M.A. Asst. Lectr.
Bethell, S. L., M.A. Camb. Asst. Lectr.
James, D. G., M.A. Asst. Lectr.

French and Romance Philology

Watkin, M., M.A., L. ès L. Ren., Ph.D. Zür., O.I.P. Prof.
Thomas, J. Heywood, M.A., D. de l'U. Paris. Lectr.
Urwin, K., M.A. Sheff., D. de l'U. Paris Asst. Lectr.
La Vieille, G., L. ès L. Paris Lecteur.
Chicoteau, Marcel H., B.A. Lond., L. ès L., Lille Lecteur.

Geology

Cox, A. H., D.Sc. Birm., Ph.D. Stras. Prof.
Heard, A., M.Sc. Manc., Ph.D. Lectr.
Dingwall, Janet M. M., M.A., B.Sc. Edin. Lectr.

German

Edwards, O. H., M.A. Belf., Ph.D. Bonn. Head of Dept.
Schoberth, F. W., Ph.D. Erlang., M.A. Lectr.
Kuhlmann, Erich, Ph.D. Bonn Lektor.

Histology, v. Anat

History

Rees, Prof. W., D.Sc. Lond., M.A. Acting H. of Dept.
Whale, Gwendolyn B. M., B.Litt. Ox., B.A. Lectr.
Williams, David, A.M. Col., M.A. Lectr.
Marshall, Dorothy, Ph.D. Camb. Lectr.
Preston, R. A., M.A. Leeds, Ph.D. Yale Asst. Lectr.

History of Wales

Rees, Wm., D.Sc. Lond., M.A. Prof.

Industrial Relations [Prof.

Marquand, H. A., M.A. (on leave)

Perlman, Selig, Ph.D. Wisconsin. Visiting Prof.

Italian

Obertello, A., Dott. Genoa Lectr.

Law

Davis, A. G., LL.M. Lond. Lectr.
Powell, J. F., B.A., B.D. Asst. Lectr.

Mathematics

Livens, G. H., M.A. Camb. Prof.
Taylor, D. G., M.A. Camb. and Glas., D.Sc. Glas. Lectr.
Pope, A. H., M.Sc. Lond. Lectr.
Neumann, B. H., Ph.D. Berlin and Camb. Asst. Lectr.

Metallurgy and Fuel Technology

Jones, W. R. D., D.Sc. Prof.
Jones, B., M.Sc., F.I.C. Lectr.
Evans, Thomas, B.Sc., A.I.C. (Fuel Technol.) Lectr.

Mining

Jones, T. David, M.Sc., Ph.D. Birm. Prof.
Chubb, C. S., M.Sc. Lectr.

Music

Evans, D., D.Mus. Ox. (to 30.9.39) Prof.
Lloyd, J. Morgan, Mus.D. Dub. Lectr.
Morgan, Joseph, D.Mus., F.R.C.O. Lectr.

Instrumental Trio

Mutter, G. N., L.R.A.M.
Morgan, Joseph, D.Mus., F.R.C.O.
Collier, D. G., B.Mus., L.R.A.M.
5 Teachers.

Philosophy [Prof.

Scott, J. W., M.A., Ph.D. Glas.
Thorburn, J. M., M.A., B.Sc. Edin., B.A. Lond. Lectr.
Howells, Rev. G., D.D. St. And. and Wales, M.A. Camb., B.Litt. Ox., Ph.D. Tüb. (Compar. Religion) Hon. Lectr.

Physics

Dunbar, R. T., M.A., Ph.D. Edin., F.Inst.P. Prof.

Lecturers

Young, C. L., B.Sc.
Harker, G. F. H., M.A. Camb.
Crackston, J. E., M.Sc. Camb. and Liv.
Wood, R. G., M.Sc. Manc.

Physiology

Brown, T. Graham, D.Sc., M.D. Edin., M.R.C.P.I., F.R.S. Prof.
Pryde, J., B.Sc. St. And., D.Sc. Lectr. (Physiol. Chem.) and Asst. Lectr. & Demr. (Physiol.).
Peterson, J. M., D.Sc. Aberd. (Expl. P.) Lectr.
Shaxby, J. H., D.Sc. Lond., F.Inst.P. (Special Sense P.) Lectr.

Asst. Lectrs. & Demrs.

Jordan, R. C., B.Sc., Ph.D. Lond.
Startup, C. W., B.Sc., Ph.D. Aberd.

Semitic Languages

Robinson, T. H., M.A., Litt.D. Camb., D.D. Lond. and Aberd., D.Theol. Halle Prof.
Johnson, A. R., Ph D. Asst. Lectr.

Welsh

Gruffydd, W. J., M.A. Ox. Prof.
Williams, G. J., M.A. Lectr.
Morgan, T. J., M.A. Lectr.

Zoology & Comparative Anatomy

Tattersall, W. M., D.Sc. Manc. Prof.
Sheppard, Edith, M., M.Sc. Lectr.
Davey, D. G., Ph.D. Camb., M.Sc. Asst. Lectr. & Demr.
Foxon, G. E. H., M.A. Camb. Asst. Lectr.
Edwards, E. E., M.Sc. (Entomol.) Adviser in Agr. Zool.

Training College of Domestic Arts for South Wales and Monmouthshire

Principal: Davies, Miss E. M., B.Sc. (Hous. and Soc. Sci.) Lond.
8 Teachers.

University Extension

Organizing Tutors
D. E. Evans, M.A.; Iwan Morgan, M.A. Joint Secy.—Louis S. Thomas.
35 Tutors.

ASSOCIATED INSTITUTIONS

TECHNICAL COLLEGE, CARDIFF. Principal, J. C. Jones, B.Sc. Lond.

SOUTH WALES AND MONMOUTHSHIRE SCHOOL OF MINES, TREFOREST. Acting Principal, Robert James.

Both Institutions join with the University College in granting Diplomas, v. *infra*: College Diplomas.

GENERAL INFORMATION

Opened in 1883 and incorporated by Royal Charter in 1884, this is now one of the constituent Colleges of the Univ. For early history, see *Yearbook*, 1929.

A Supplemental Charter was granted to the College on Jan. 21, 1931, and a Charter of Incorporation to the Welsh National School of Medicine on Feb. 5, 1931.

Medical students pursue their preliminary medical studies at the Coll. and their clinical studies at the Welsh National School.

LIBRARY: Drapers' Company's, 88,082 vols. MUSEUMS: Anat., Zool., Agric. The National Museum of Wales (Art, Archæol., Zool., Geol., Bot.) is located in an adjoining building. LABORATORIES: Physical Research, with liquid-air plant, etc.; Engineering (including 100-ton testing machine); and usual Science and Medical teaching and Research labs.

FACULTIES. Arts, Science, Theology. *Departments*: Music, Applied Science and Technology, Teachers' Training; Training College of Domestic Arts; Advisory and Research Dept. in Agric.; Law.

COLLEGE DIPLOMAS. Engin., Metalliferous Mining, Metallurgy; Lang., Lit., and Hist. of Wales; Econ. and allied subjects; Music; Social Study and Training. In the Applied Science subjects the qualifying scheme of study covers 3 years; in the other subjects, 2 yrs. A Diploma in Biology and a Diploma in Palæography and Allied Subjects awarded after a one-year's course. A Joint Diploma in Coal Mining is granted by the Coll. and the S.W. and Monmouthshire School of Mines, 4 yrs.' residence being required. After a 4 yrs.' course students who desire to specialize in certain subjects can take a post-diploma course. A Joint Diploma in Mech. Engin. or Marine Engin., or Architecture or Commerce, is granted by this Coll. and the Cardiff Tech. Coll. after a 3 yrs.' course; a Diploma in Chem. Engin. after completion of a post-diploma course extending over at least 1 yr.; and a Joint Diploma in Commerce after completion of a postgraduate course extending over 1 yr., under approved regulations.

SCHOLARSHIPS (Prospectus obtainable from the Registrar). One of £60 is offered for research by a woman in any faculty, one of £50 for Science research. *See also* under Univ.

FEES. Annual Composition for tuition—Arts, £15; Science, £20; Music, £15; Applied Science, £20 (Non-associated Counties, £30); Medical (first 3 yrs.), £25 to £35; Research, 6 to 10 gs.; Domestic Arts, £35 (Non-associated Authorities, £60); Registration, 1 g. p.a.

RESIDENCE. 5 Hostels for women: Aberdare Hall—Warden: Miss E.

Olwen Parry, M.A.; College Hall, Llanishen—Warden: Miss E. M. Jenkins; 74 Cathedral Road—Warden: Miss I. P. Price; 40 Cathedral Road—Warden: Miss G. D. Sweeting; 199 Newport Road—Warden: Miss E. S. Williams. Sessional Fees, £55 to £72. Board and lodging in the City can be obtained at about £1 : 10s. per week.

PHYSICAL WELFARE OF STUDENTS. There is an Asst. Lectr. in Physical Training who also acts as College Adviser in Physical Training and Games.

PUBLICATIONS. *Calendar* (Feb.), 2s.; *A Short History of the College*, 2s. 6d.; *Students' Handbook*; *Cap and Gown. Information regarding Courses and Careers open to Students of Science.*

THE YEAR 1937–38

BENEFACTIONS. £3491 : 7 : 8 towards Appeal Fund for £250,000. £763 : 11 : 6 for Scholarships, Prizes, etc.

NEW BUILDINGS. Plans are in course of preparation for the erection of a new Gymnasium and Squash Rackets Courts.

EXTRA-MURAL WORK. 47 Preparatory and University Tutorial Classes and 16 University Extension Courses were held during the Session. The number of students in attendance was 1182. A rally of students and tutors was held, at which 900 attended.

PUBLIC LECTURES. Prof. Joseph Vendryes (Univ. of Paris), "L'Esprit des littératures celtiques médiévales"; Herr Hans Grimm, "Wie ich den Engländer sehe"; Lee S. Greene, "The Tennessee Valley Authority"; Signor Luigi Gasparini, A 'Cello Recital; Martin Hardie, "British Water-Colour: and the Art of Girtin and Turner"; Kenneth Lindsay, "The Service of the University to the Community"; W. Arnold Foster, "Japan's Aggression and its Economic Background"; Prof. G. C. Allen (Univ. of Liverpool), three lectures on the Economic Structure, Industrial Expansion and Political Situation of Japan; Prof. Eileen Power (Univ. of London), "Pastoral Life in the Middle Ages"; The Rev. Principal H. Wheeler Robinson, "The Philosophy of Revelation as illustrated in the Old Testament"; Ezer Griffiths, "Physics and Material Progress"; Prof. R. G. Austin (Inaugural Lecture), "Quintilian on Education"; Mrs. Hannah Priebsch Closs, "German Art in the Age of Chivalry."

RESIGNATIONS. Miss M. Elias Jones (Educ.); Christopher Hill (Hist.); Miss Annie Jackson (Educ.); Dr. M. M. Pelan (French); Dr. A. J. Ockleston (Engin.).

STUDENTS. Full-time, 1036, including 198 graduates. Part-time, 95, including 8 graduates.

DEGREES. B.D., 6; B.A., 136; M.A., 8; B.Sc., 89; M.Sc., 10; D.Sc., 4; B.Mus., 3; D.Mus., 1; M.B., B.Ch., 14; M.D., 2. DEGREES OBTAINED IN THE UNIVERSITY OF LONDON: B.Sc., 13; M.B., B.S., 4.

UNIVERSITY COLLEGE OF SWANSEA

Founded 1920

PRESIDENT—Sir GEORGE BARSTOW, K.C.B.
PRINCIPAL—C. A. EDWARDS, D.Sc. Manc., F.R.S. (Vice-Chancellor from 1.9.39).
REGISTRAR—EDWIN DREW.
LIBRARIAN—OLIVE M. BUSBY, M.A. Lond.

Telephone: Swansea 5059.

TEACHING STAFF

Biology

Mockeridge, Florence A., D.Sc. Lond., F.L.S. (Bot.) Prof.
Rees, T. Kenneth, M.Sc., F.L.S. (Bot.) Lectr.
Little, Percy A., B.Sc., Ph.D. (Zool.) Lectr.
Fothergill, P. G., Ph.D. Durh. Asst. Lectr.

Chemistry

Coates, J. E., O.B.E., D.Sc. Birm., M.Sc., F.I.C. Prof.
Hinkel, L. E., D.Sc. Lond., F.I.C. (Organic C.) Lectr.
Ayling, E. E., M.Sc. Lond., F.I.C. Lectr.
Hartshorne, N. H., M.Sc. Birm., Ph.D. Lond. Lectr.

Classics

Farrington, B., B.A. Dub., M.A. N.U.I. Prof.
Hill, H., M.A. Sheff. Lectr.

Asst. Lectrs.

Armstrong, A. H., M.A. Camb.
Wormell, D. E. W., B.A. Camb., Ph.D. Yale.
Jones, J. H., Ph.D. Lond., M.A.

Economics

..... Prof.
Hare, A. E. C., M.A. Camb., Ph.D. Lond. Asst. Lectr.

Education

Williams, W. M., M.A. Ox. Prof.
Jones, Idwal, M.A. Lectr.
Stephens, D. J., M.Sc. Lectr.
Owen, Annie, M.A., D. de l'U. Paris Lectr.

Engineering

Bacon, F., M.A. Camb. Prof.
Isaacs, R. G., M.Sc. Bris., B.Sc. Lond. (Elec. E.) Lectr.
Fordham, A. A., B.Sc., Ph.D. Lond. (Civ. E.) Lectr.
Caswell, J. S., M.Sc. Lectr.
Farvis, W. E. J., B.Sc. Brist. Asst. Lectr.

English [Prof.

Thomas, W. D., M.A. Ox., B.A.
Taig, T., M.A. Glas. Lectr.
Westcott, Isabel M., B.A. Brist, B.Litt. Ox. Lectr.
McIntosh, A., B.A. Ox., A.M. Harv. Asst. Lectr.

French [Prof.

Williams, Mary, D. de l'U. Paris, M.A., Chev. Lég. d'H., O.A.
Diverres, P., M.A. Liv., D. ès L. Rennes, O.I.P. Lectr.
Pool, E. Millicent, M.A. Liv., O.A. Lectr.

Geology and Geography

George, T. N., Ph.D. Camb., D.Sc., F.G.S. Prof.

Stuart, A., M.Sc. Durh., F.G.S. (Geol.) Lectr.
Williams, D. T., M.A. (Geog.) Lectr
Simpson, Brian, M.Sc. Liv. (Geol.) Lectr.

German

Halliday, F. W., M.A. Manc. Ind. Lectr. and Hd. of Dept.
Coveney, Dorothy K., Ph.D. Lond. Lectr.
Marleyn, R., M.A. Ox., Ph.D. Göttingen Asst. Lectr.

History

Hughes, E. E., M.A. Ox., B.A. Prof.
Medlicott, W. N., M.A. Lond. Lectr.
Roberts, Glyn, M.A. Lectr.

Mathematics

Richardson, A. R., D.S.O., B.Sc. Lond., A.R.C.S. Prof.
Wilson, R., M.A. Ox. Lectr.
Littlewood, D. E., M.A. Camb. Lectr.
Lees, A., M.Sc. Lond., Ph.D. Camb. Asst. Lectr.

Metallurgy [Prof.

Edwards, C. A., D.Sc. Manc., F.R.S.
Taverner, L., A.R.S.M., D.I C., M.I.M.M. Asst. Prof.
Higgins, R., Ph.D. Glas. Lectr.
Griffiths, Roosevelt, M.Sc. Lectr.
Wilkinson, T. B., B.Eng., Ph.D. Liv. Asst. Lectr.

Philosophy

Heath, A. E., M.A. Camb. Prof.
Gallie, W. B., B.A., B.Litt. Ox. Asst. Lectr.
Britton, K., B.A. Camb., A.M. Harv. Asst. Lectr.

Physics

Evans, E. J., D.Sc. Lond., B.Sc., A.R.C.S. Prof.
Davidson, P. M., B.A. Camb., Ph.D. Lond. Lectr.
Wright, L., M.Sc. Sheff. Lectr.
Jones, F. L., M.A., D.Phil. Ox. Lectr.

Welsh

Lewis, Henry, M.A., D.Litt. Prof.
Williams, Stephen J., M.A. Lectr.
Richards, G. M., M.A. Asst. Lectr.

Physical Education

Jones, Vernon, B.A., Instructor in Physical Training.

University Extension

Thomas, P. S., M.A. Senr. Staff Tutor.
David, Illtyd, M.A., LL.B. Camb., LL.D. Dub., M.A. Staff Tutor.
Lloyd, W. L., M.A. Camb. Lectr.

GENERAL INFORMATION

Incorporated by Royal Charter, dated Jan. 21, 1920, the College was made a constituent College of the Univ. of Wales by a Supplemental Charter to the Univ. on Aug. 13, 1920. The administrative offices, assembly hall, common rooms, and refectory, in addition to some of the Science departments, are accommodated in a mansion in Singleton Park, presented, together with 19 acres of land surrounding it and 15 acres for playing-fields, by the Corporation of Swansea, which also gave £50,000 towards the cost of Science buildings. Extensive laboratories have been erected in the Park, on a site adjacent to the main College building, for the departments of Metallurgy, Engineering, Chemistry and Physics, and buildings to accommodate the Arts Departments and the Library.

Situated in the heart of a district possessing a long and interesting metallurgical history and presenting an unrivalled variety of present-day metallurgical practice, the College offers exceptional advantages for preparation for

professional careers in the metallurgical industry. The manufacturers of the district, who contribute largely to the support of the College, give the staff and students ample opportunities of keeping in close practical touch with manufacturing processes in the works. To ensure the closest possible co-operation with the local industries, Advisory Committees in Metallurgy and Engineering have been set up. All the College laboratories (Physics, Chem., Geol., Biol., Metall., Engin.) are well equipped and include fine experimental plant for instruction and research in combustion engineering.

FACULTIES. Science and Arts. Departments: Metallurgy and Engineering, and Training of Teachers (men and women) for Elem. and Sec. Schools.

COURSES FOR DEGREES, ETC. Courses for the degrees of the Univ. in Pure and Applied Science and Arts (3 yrs.); also for the College diplomas in Metall. or Engin. (3 yrs.), Mathematical Physics (final Hons. yr. and 1 postgrad. yr.); and complete Prelim. Science Course for medical students and classes in Law for articled clerks. Engineering students are expected, and, where necessary, helped, to obtain practical experience in works during the greater part of the summer vacation. Afternoon visits to works are arranged frequently throughout the session. Occasional lectures are given by experts on the business, administration and managerial side of industrial undertakings.

FEES. For annual tuition in Pure or Applied Science, £20; Arts, £15; for Research, from 6 to 10 gs. p.a.; Registration, £1: 1s. p.a.

RESIDENCE. Beck Hall of Residence for women students (Warden: Miss M. K. Wilkinson, M.A.), fee, £59: 17s. p.a. A list of Registered Lodgings is kept by the Registrar.

THE YEAR 1937–38

BENEFACTIONS. Donations from £1: 1s. to £1200 for general purposes, research, etc. Annual subscriptions, £3626: 15: 8. Contributions to New Library Fund, £453: 14s.

NEW BUILDINGS. The new library building was opened by H.R.H. the Duke of Kent, accompanied by H.R.H. the Duchess of Kent, on October 19, 1937, and is now in full occupation. The new gymnasium is completed, equipped and in full occupation.

HONOURS COURSES IN ENGINEERING. Arrangements have been made to institute Honours Courses in Civil, Electrical, Mechanical and Metallurgical Engineering from the beginning of the Session 1938–39.

VISITS OF TEACHERS FROM OTHER COLLEGES. Prof. H. J. W. Tillyard (Cardiff), "Archæology in Greece, 1904–1934," "Sparta," "Some Churches and Monasteries" (3 lectures); Miss Kathleen Freeman (Cardiff), "Greek Oratory" (3 lectures); Emrys G. Bowen (Aberystwyth), "Historical Geography of Wales" (3 lectures); D. J. Gwenallt Jones (Aberystwyth), "Rhai Agweddau ar Farddoniaeth a Beirniadaeth Lenyddol y Bedwaredd Ganrif ar Bymtheg" (4 lectures); Prof. Ifor Williams (Bangor), "The Poetry of Aneirin" (3 lectures); Prof. J. L. André Barbier (Aberystwyth), "A la recherche des mondes cachés" (3 lectures); Prof. Olive Wheeler (Cardiff), "The Nursery School" (1 lecture); Dr. W. R. Angus (Bangor), "Applications of Denterium in Molecular Spectroscopy" (5 lectures).

RESIGNATION. G. L. Jones, on appt. as Lecturer in Metallurgy at the Sir John Cass Technical Institute, London.

UNIVERSITY EXTENSION WORK. 25 University Tutorial Classes, 6 Prepara-

tory Classes, and 1 University Extension Course, with 594 students, and 1 One-Year non-grant-earning Class with 18 students. Many single lectures were given by members of the College staff in Swansea and elsewhere.

STUDENTS. Full-time: 550, including 102 graduates. Part-time: 37, including 3 graduates.

DEGREES. B.A., 76; M.A., 3; B.Sc., 57; M.Sc., 2; Ph.D., 1.

THE WELSH NATIONAL SCHOOL OF MEDICINE, CARDIFF

Founded 1931

PRESIDNET—The Right Hon. LORD ABERDARE.
PROVOST—A. W. SHEEN, C.B.E., M.S., F.R.C.S.
HON. TREASURER—Sir WILLIAM JAMES THOMAS, Bt., LL.D.
SECRETARY—S. C. EDWARDS.

Telephone : Cardiff 3280.

TEACHING STAFF

(For subjects of first 3 yrs.—Anat., etc., v. Univ. Coll., Cardiff)

Forensic Medicine and Toxicology

Buist, J. J., M.B. Lond. Lectr.

Hygiene and Public Health

Picken, R. M. F., B.Sc., M.B., Ch.B. Glas., D.P.H. Camb. (Preventive Med.) Mansel Talbot Prof.

Williams, E. Colston, M.D. Lond., D.P.H. Camb., F.R.C.S.E. Lectr.

Wilson, J. Greenwood, M.D., F.R.C.P., D.P.H. Lectr.

Morgan, W. Parry, M.A., M.D. Camb., B.Sc. Lond. Lectr.

Sugden, J. H., M.Sc. Manc., F.I.C. Lectr.

Buist, J. J., M.B. Lond. (Vaccination) Instr.

Infectious Diseases

Harries, G. Emrys, M.B., B.S. Lond., D.P.H. Lectr.

Materia Medica and Pharmacology

Heathcote, R. St. A., M.A., B.Sc., D.M., B.Ch. Ox., F.R.C.P. Prof.

Duguid, Agnes M. E., M.B., Ch.B., D.P.H. Aberd. Asst. Lectr.

Petersen, Jean N., M.D. Aberd., D.P.H. Demr.

Griffiths, E. T., Ph.C., M.P.S. (Pharmacy) Asst.

Medicine (Med. Unit)

Kennedy, A. Mills, M.D. Glas., F.R.C.P. Prof. and Director.

Howells, Leonard, M.D. Lond., B.Sc., M.R.C.P. Senr. Asst.

Junr. Assistants.

Harry, Nansi E., B.Sc., M.B., B.Ch.

Kellerman, F., M.D. Vienna, L.R.C.P. & S. Edin., L.R.F.P. & S. Glas.

Ingham, J., F.I.C. Bio-Chemist.

Obstetrics and Gynæcology

Strachan, G. I., M.D., Ch.B. Glas., F.R.C.P. Lond., F.R.C.S. Eng. and Edin., F.C.O.G. Prof.

Maliphant, R. G., M.D. Lond., M.R.C.P., F.R.C.S., M.C.O.G. Lectr.

Watkins, A. G., M.D., B.S. Lond., B.Sc., M.R.C.P. (also Diseases of Children) Pediatrician

Assistants

Evans, M. D. Arwyn, M.D., F.R.C.S., M.C.O.G.

Embrey, Mostyn P., B.Sc., M.B., B.Ch.

Webster, Helena J., B.Sc., M.B., B.Ch., D.P.H.
Jones, John, B.Sc., M.B., B.Ch.

Pathology and Bacteriology

Duguid, J. B., M.D. Aberd. Prof.
Morgan, W. Parry, M.A., M.D. Camb., B.Sc. Lond. (Bact.) Lectr.
Gough, Jethro, B.Sc., M.D. (Path.) Lectr.
Heggie, R. M., B.Sc., M.B., Ch.B. Glas. Asst. Lectr.
Boissard, Joan M., M.R.C.S., L.R.C.P. Demr.
Drummond, R. J., M.R.C.S., L.R.C.P. Demr.

Psychological Medicine

Hennelly, T. J., M.D. (Psychol. Med.), D.P.H., N.U.I. Lectr.

Surgery (Surg. Unit)

Rogers, Lambert, M.Sc., F.R.C.S. Eng. and Edin., F.R.A.C.S., F.A.C.S. Prof. and Director.
d'Abreu, A. L., Ch.M. Birm., F.R.C.S. Senr. Asst.
Wolfe, H. R. I., M.B., B.S. Lond., F.R.C.S. Jnr. Asst.
Parker, A. O., M.D., C.M., M.C.P.S. Manit. (Orthopædics) Lectr.

Tuberculosis

Tytler, W. H., B.A., M.B. Tor. David Davies Prof.
Williams, Enid M., B.Sc., M.D. Asst. Lectr.
Powell, D. A., M.D. Lond. Hon. Lectr.

Recognized Teachers

Brownlee, A., M.D. Durh., F.R.C.S.E., L.R.C.P., L.D.S., D.P.H. Camb.
Davies, William, M.R.C.S., L.R.C.P.
Gilchrist, James C., M.D., Ch.B. Edin.
Hiley, R. Melville, M.R.C.S., L.R.C.P.
Johnson, A. C., M.A., M.B., B.Ch. Camb.
Ross, H. A., M.B., Ch.B., B.Sc. Glas., D.P.H. Camb.

Recognized Clinical Teachers and Part-time Lecturers

Anæsthetics

West, J. Hardstaff, M.R.C.S., L.R.C.P., D.A. Lectr.

Clinical Tutors

Humphreys, Sybil M., M.B., B.S. Lond., M.R.C.S., L.R.C.P.
Pearson, F.Y., M.R.C.S., L.R.C.P., F.R.C.S.E.
Stanley, H. M. S., M.R.C.S., L.R.C.P.
Wallace, T., M.B., B.Ch., B.A.O Belf.

Dental Surgery

Spiridion, C., L.D.S.
McFarlane, J., L.R.C.P. and S. Edin., L.D.S.
Murray, A. L., L.D.S.
Smith, J. I., L.D.S.

Dermatology

Bettley, F. R., M.D. Lond., M.R.C.P. Lectr.

Diseases of Children

Watkins, A. G., M.D., B.S. Lond., B.Sc., M.R.C.P. Lectr.

Medicine

Davies, Ivor J., M.D. Lond., F.R.C.P.
Evans, Herbert T., M.A. Lond., D.M. Ox., M.R.C.P.
Evans, Abel, M.B., B.S. Lond., M.R.C.P.
Phillips, W., B.Sc., M.D., M.R.C.P.
Howells, Leonard (also Medicine, Medical Unit).
Danino, E. A., M.D., M.R.C.P. Clin. Tutor.

Ophthalmology

Thomas, J. W. Tudor, M.S. Lond., D.Sc., M.D., F.R.C.S.
Parry, J. R., M.B., B.S. Lond., F.R.C.S.E.
Gluck, Bernard, M.A., M.B., M.Ch. Dub., D.O.M.S., F.R.C.S.Ed.

Oto-Rhino-Laryngology

Owen, R. D., B.Sc., F.R.C.S.Ed. Lectr.
Prichard, A. A., M.D., B.Ch. Camb.

Pathology, Clinical

Schólberg, H. A., M.B. Lond., D P.H. Camb.

Physio-Therapy

Evans, T. Garfield, M.D., B.S. Lond., D.M.R.E. Camb. Lectr.

Radiology

Rhys, Owen L., M.D., Ch.B. Edin., F.B.A.R. Lectr.

Surgery

Wade, J. O. D., O.B.E., M.S. Lond., F.R.C.S.
Harries, D. J., M.D., B.S. Lond. D.Sc., F.R.C.S.
Hammond, T. E., F.R.C.S.
Haycraft, J. B., M.C., M.B., Ch.B Edin., F.R.C.S.
Ioan-Jones, D., M.B., B.Ch., F.R.C.S.
Lysaght, A. C., L.R.C.P., F.R.C.S.
Thomas, F. Brian, F.R.C.S. Clin. Tutor.

Venereal Diseases

Bettley, F. R., M.D. Lond., M.R.C.P. Lectr.
Phillips, Grace M., M.R.C.S., L.R.C.P. Asst. Lectr.
Downing, R , M.D., B.Ch. Camb. Clin. Tutor.
Sheasby, H., M.B., Ch.B. Birm. Clin. Tutor.

GENERAL INFORMATION

The Welsh National School of Medicine originated in the institution of Depts. in Anat. and Physiol. at the Univ. Coll. of S. Wales and Monmouthshire, Cardiff, in 1893. The Dept. of Mat. Med. and Pharmacol. was instituted in 1898, and the Chair of Pathol. and Bacteriol. in 1910. The David Davies Chair of Tuberculosis and the Mansel Talbot Chair of Prev. Med. were endowed in 1921, and in that year Medical and Surgical Units and a Dept. of Obstet. and Gynæcol. were instituted. On Feb. 5, 1931, a Charter of Incorporation was granted to the School by H.M. the King in Council.

While the Courses of instruction are designed to meet the Regulations for the Degrees in Medicine and Surgery of the Univ. of Wales, they are also recognized as satisfying the Regulations of the Univ. of London and of the Conjoint Board Examinations for the R.C.P. and R.C.S., and of other Examining Bodies.

Every candidate who proposes to pursue the courses appropriate to the second year of study for Med. Students, viz.: Organic Chem., Anat. and Physiol., shall, prior to his admission to first-year courses in Physics, Chem. and Biology, present a certif. showing that he has passed the Matric. Examn. of the Univ. of Wales, or an examn. recognized by the Univ. of Wales as equivalent thereto ; and, if the certif. does not show that he has passed at the Matricn. standard in *two* of the following subjects: Physics, Chem., Bot., Zool. Biol. (one of which must be *either* Physics *or* Chem.), he shall present a supplementary certif. or certifs. showing that he has passed an examn. of Matricn. standard in these subjects.

No candidate will normally be accepted for admission to the Depts. of the second year of the Med. course unless he has completed, at one and the same time, an examn. leading to a Univ. degree in all the four first-year courses, Physics, Chem., Bot., and Zool. This regulation may be relaxed at the discretion of the Joint Academic Committee of the Univ. College, Cardiff, in certain cases where only *one* of the four first-year courses named above is outstanding.

Note.—An approved Second School Leaving Certif. Examn. will be recognized, subject for subject, as equivalent to an examn. leading to a Univ. degree.

DEGREES AND DIPLOMAS. The School provides courses of study for the degrees of M.B., B.Ch., B.Pharm., and for the Tuberculous Dis. Dipl. and the Dipl. in Public Health of the Univ. of Wales (*see* thereunder).

FEES. Tuition: Annual Composition Fee, £25 for the first year and £35 for each of the following years; D.P.H. Composition Fee, £21 for Part I., £25 for Part II.; T.D.D. Composition Fee, £25. Registration, £1 : 1s., payable by all students. Hospital Practice (4th, 5th and 6th years), £5 : 5s. per year. Examination, M.B., B.Ch., £26 : 16s.; M.D., £20; M.Ch., £20; D.P.H., £12 : 12s.; T.D.D., £10 : 10s.

SCHOLARSHIPS, PRIZES, AND MEDALS. "Dr. Price Prize," £50; "Isaac Roberts Scholarship," £50; "Samuel Bros. Scholarship," £12-£15; "Dr. Howell Rees Scholarship," £17 : 10s.; "Alfred Sheen Prize," £5; "The Cardiff Medical Society Prizes" in Med., Surg., and Obstet. and Gynæc., value £2 : 2s. each; "The David Hepburn Medal" and "The Alfred Hughes Medal." *See* also under University.

POST-GRADUATE SCHOLARSHIPS. "Mrs. John Nixon" for Research in Med. and Med. Pathol., annually, £150 for 1 yr. "Lord Merthyr" for res. in Cancer, annually, £200 for 1 yr. For "Ewen Maclean" (Obstet. and Gynæc.) and "Cecil Prosser" (Tuberculosis) Scholarships, *see* App. II. 16.

TERMS. Oct. 4–Dec. 16, 1938; Jan. 10–March 24; Apr. 18–June 30, 1939.

PUBLICATIONS. *Prospectus* and *Regulations* (free).

THE YEAR 1937–38

STUDENTS. Full-time: 162 (incl. 5 Research). Part-time: 206.

DEGREES. M.D., 2; M.B., B.Ch., 15; M.B., B.S. (London), 4; M.R.C.S., L.R.C.P., 17; L.M.S.S.A., 2. *Diplomas*: T.D.D., 12; D.P.H., 5.

UNIVERSITY COLLEGE OF THE SOUTH-WEST OF ENGLAND, EXETER

Founded 1901

PRESIDENT—.....

TREASURER—D. HEATHCOAT AMORY.

PRINCIPAL—JOHN MURRAY, M.A. Ox. and Aberd., LL.D. Aberd.

REGISTRAR AND SECRETARY—A. K. WOODBRIDGE.

ACTING LIBRARIAN—Miss K. E. PERRIN, B.A. McGill.

Telephone: Exeter 4141

TEACHING STAFF

Archæology

Ralegh-Radford, C. A., B.A. Ox., F.S.A. Hon. Lectr.

Botany and Horticulture

Caldwell, J., D.Sc. Glas. Hd. of Dept.

Cumming, A. M., A.R.C.S.I., N.D.H. Asst. Lectr.

Richardson, Miss M. M., Ph.D. Durh. Asst. Lectr.

James, A. L., B.A. Ox. Research Asst.

Chemistry

Britton, H. T. S., D.Sc. Lond., D.I.C., F.I.C. Prof.

King, Miss R., M.Sc. Lond. Lectr.

Bircumshaw, L. L., M.A. Camb., D.Sc. Lond. Lectr.

Cocker, W., M.Sc., Ph.D. Manc. Asst. Lectr.

Classics

Heap, G. V. M., M.A. Camb. Actg. Hd.

Knight, W. F. J., M.A. Ox. Lectr.

Costello, D. P., M.A. N.Z., B.A. Camb. Asst. Lectr.

Economics

Sykes, J., M.A., Ph.D. Leeds, M.Com. Manc. Hd. of Dept.

Tress, R. C., B.Sc. (Econ.) Lond. Asst. Lectr.

Education and Psychology

Watkins, S. H., M.A. Wales, Ph.D. Leip. Prof.

Mathias, Miss S. Y., M.A. Liv. Lectr.

Tibble, J. W., B.A., M.Ed. Leeds Lectr.

Meredith, P., M.Sc., M.Ed. Leeds Asst. Lectr.

Stephenson, Miss E. M., M.Sc. Lond. (Biol. and Hyg.). Asst. Lectr.

Kemp, Miss C. L., M.A. Lond. (English) Asst. Lectr.

11 Assts. and Pt.-time Lectrs. and Instrs. in Teachers' Training Dept.

Elocution and Dramatic Art

Riley, W. A., L.R.A.M. (Eloc.), F.T.C.L. Lectr.

English

Horrox, W. L., M.A. Camb. Prof.

Wright, Miss B. D., M.A. Edin., Ph.D. Lond. Lectr.

Lloyd, L. J., M.A. Camb. Lectr.

Dexter, Miss K. M., B.A. Lond. Asst. Lectr.

Walton, G., B.A. Camb. Asst. Lectr.

Littler, H. L., M.A. Ox.
Tutor to Foreign Students.

Geography

Lewis, W. S., M.Sc. Lond.
Reardon Smith Prof.
Clayden, A. W., M.A. Camb.
Visiting Director.
Shorter, A. H., B.A. Manc.
Asst. Lectr.
Morgan, F. W., M.A. Camb.
Asst. Lectr.
Woodley, E. T., B.A. Lond.
Graduate Scholar.

Geology, Physical [Lectr.

Stephenson, Miss E. M., M.Sc. Lond.

History

Douglas, D. C., M.A. Ox. Prof.
Handcock, W. D., M.A. Brist., B.Litt. Ox. Lectr.
Greenaway, G. W., M.A. Camb. Lectr.
Macdonald, D. F., M.A. Aberd., D.Phil. Ox. Asst. Lectr.
Price, F. D., B.A. Ox. Asst

History of Christianity

Carpenter, Very Rev. S. C., D.D. (Dean of Exeter). Hon. Prof.

Horticulture, v. Botany

Law

Morgan, J. G., M.A. Ox., LL.B. Lond. Hd. of Dept. & Dir. of Legal Studies.
Roberts, C. H., M.A. Ox. Lectr.
Turner, R. W., M.A., LL.M. Camb. (also Trust A/cs. and Book-keeping) Tutor.
Parry, H. Lloyd, O.B.E., B.A., B.Sc., LL.B. Lond.
(Const. L. and Pub. Admin.) Hon. Lectr.

Mathematics

Brown, T. A., B.A. Camb., M.A., B.Sc. Edin., F.R.A.S. Prof.
Mallison, H. V., M.A. Camb., B.Sc. Lond. Lectr.
Unthank, H. W., B.A. Camb., M.A., B.Sc. Lond., F.R.A.S. (Applied M.) Lectr.
Hill, W. H., B.A. Camb.
Asst. Lectr.

Modern Languages

Abercrombie, N. J., M.A., D.Phil. Ox. Prof.
Trudgian, Helen M., D. ès L., Dipl. d'Et. Paris
(French Lit.) Reader.
Wilson, Aileen, M.A. Dub., D. de l'U. Paris Lectr.
Stirk, S. D., M.A. Ox., Dr. phil. Breslau Asst. Lectr.
Lauterbach, U. Lektor.
Valéry, F., L. ès L. Paris Lector.

Music

Wilcock, A. W., Mus.D. Manc., F R.C.O. Hd. of Dept.

Philosophy [Hd. of Dept.

Levine, I., M.A., D.Litt. Glas.
Boden, F. C., M.A. Lond.
Pt.-time Asst. Lectr.

Phonetics

Lloyd, Mrs. Vera, L.R.A.M. (Eloc.)
Pt.-time Asst.

Physics

Newman, F. H., D.Sc. Lond., A.R.C.S., F.Inst.P. Prof.
Searle, V. H. L., M.Sc. Lond.
Lectr.
Hoare, F. E., M.Sc., Ph.D. Lond., A.R.C.S. Lectr.
Goyer, Miss M., B.Sc. Leeds, Ph.D. Vienna Demr.

Zoology

Harvey, L. A., M.Sc. Lond., D.I.C.
Head of Dept.
Stephenson, Miss E. M., M.Sc. Lond. Lectr.
Lowenstein, O., Ph.D. Munich
Asst. Lectr.

Physical Education
P. A. Smithells, M.A. Camb. Instr.

Extra-mural Studies
F. G. Thomas, M.A. Leeds Organizing Tutor.

R. Chaput, M.A. Syracuse, D. ès Sc.Pol. Geneva (Internat. Politics) Hon. Lectr.

3 Assts., 2 Tutors.

GENERAL INFORMATION

Organized as a College, 1901. Incorporated under its present title, 1922.

Courses are provided for the various External Degrees of the Univ. of London in Arts, Science, Economics, Commerce, Horticulture, Law, and Music, and for the Inter. B.Sc. examns. in Engineering and Agriculture and Inter. B.Pharm. examn. The Final examns. for B.Sc. in Engin. and Agric. may be taken at Plymouth Technical Coll. and Seale-Hayne Agricultural Coll. respectively. Courses are also provided for Elementary and Secondary teachers, for entrance into Civil Service, for the first year of Medical study and for the College Diploma in Public Administration (day and evening courses). Provision for special work in English (incl. Phonetics) for foreigners for 1 or more terms. (Prospectus from Registrar.) The Training Dept. is recognized as a Training College for Elem. and Secondary teachers. The Royal Albert Memorial Library (60,000 vols.) and Museum are closely associated with the College, and the important collections of books and scientific material are freely available for advanced students of the College.

AFFILIATION. The College is recognised as an associated Institution by the Univs. of Ox. and Cam. It is recognized by the Camb. Special Board for Med. and the Conjoint Med. Board as a place of instrction in Chem., Physics, and Biol., and by the Institute of Chemistry for instruction in preparation for its Examns.

FACULTY BOARDS in Arts, Sci., and Econ. supervise students.

ADMISSION. Matriculated students aged 17 or over, between 16 and 17 by special resolution of the Senate. Unmatriculated students must as a rule be over 18 and must satisfy the Senate as to their fitness to profit by the courses.

FEES. Annual: Interm. course, Arts, Econ. or Comm., £25; Sci., £30; final course in Arts, Econ. or Comm., £25; Sci., £30; fees at reduced rate payable by students from Devon, Cornwall, Dorset, Exeter, or Plymouth; Law, 10 to 16 gs.; for foreign students (term) 8 gs.; Medical, 16-20 gs.; Pharmacy, Prelim. Sci., 12 gs.; Research, 8 to 10 gs.; Teachers' Training Dept. (Elem., Sec., Froebel and Handicraft), £13-£40; Registration, £2 (except: Postgrad. part-time, £1; Law, £1 : 1s.).

RESIDENCE. For women—Hope Hall (45 students), Warden: Miss Ruth King, M.Sc.; Lopes Hall (70), Warden: Miss C. Kemp, M.A. Terms: £62-£65 p.a. For men—Reed Hall (70), Warden: H. L. Littler, M.A.; Kilmorie Hall (37), Warden: E. T. Woodley, B.Sc.; Mardon Hall (80), Warden: J. Davison, B.A.; Thomas Hall (30), Warden: W. F. J. Knight, M.A.; Sandford Hall (21), Warden: W. H. Hill, B.A. Terms: £63-£70 p.a. All students not living at home must reside in one of the Halls of Residence.

SCHOLARSHIPS for graduates: in Sci. one or two annually from Andrew Simons Scholarship Fund; one (Rook) annually to Mod. Lang. student for study abroad; one (Lopes) annually in Arts, and one Rotary Scholarship tenable at this College or elsewhere.

APPOINTMENTS COMMITTEE. Chairman, Dr. J. Sykes.

SUMMER SCHOOLS in Biology and for Foreign Students are held in Aug. In 1938, 208 students attended the latter from 26 different countries.

PUBLICATIONS. *Prospectus*, issued (free) in July; *Annual Report* (free) in Oct.; the *Ram*, College Magazine (terminally); the *College Field Club Proceedings*; Guild of Undergraduates' *Handbook*.

THE YEAR 1937–38

BENEFACTIONS. Sundry subscriptions amounting to £8497 to Library Building Fund. Extensive Library under will of the late Mr. Gordon McNeil Rushforth, of Malvern Wells.

NEW BUILDINGS. H.R.H. The Duke of Gloucester laid the foundation-stone of the new College Library on the 20th October 1937, and work on the building is proceeding. Hut purchased for use as O.T.C. Headquarters

NEW DEPARTMENTS AND POSTS. Instructor in Physical Education (full-time). Assistant Lecturers in English and History.

OTHER DEVELOPMENTS. Diplomas in Public Administration and Social Studies instituted.

EXTRA-MURAL WORK. Extra-mural work reorganized.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES, ETC. Prof. Wilson Knight, Chancellor's Professor, Univ. of Trinity College, Toronto, visited the College for the Summer Term, 1938. H. Matteringly of the British Museum, "Imperial Rome"; Vladimir de Korostovetz of Russia: "Russian Policy in the Pre-War and Post-Revolution Periods"; Guy Pocock, Editor, Supplementary Publications, B.B.C., London, "Reading, Writing and Radio"; Stanley Casson, New College, Oxford, "Masterpieces of Greek Sculpture"; A. Keiller, "Avebury: the season's work in 1937"; Lt.-Col. F. C. Hirst, "Archæological Progress in West Cornwall"; H. St. George Gray, "The Somerset Lake Villages"; Prof. F. J. C. Hearnshaw, "Queen Victoria"; The Hon. Harold Nicolson, M.P., "The Evolution of Diplomacy."

RESIGNATIONS. E. J. Patterson (Extra-mural Studies), on appt. as Principal of Ashridge College. G. S. Gittins (Educ.), on appt. at the Home Office. Dr. A. S. J. Baster (Economics), on appt. at Geneva. W. R. Arnould, Boys' Club Leader, Rural Extension Scheme. Miss A. Graham, Assistant in Music under Rural Extension Scheme.

DEATHS. The Rt. Hon. Lord Roborough, President of the College; P. B. Lucas, Article XI. Full-time Tutor for Devon.

STUDENTS. Full-time: 443, including 13 graduates. Part-time: 56, including 13 graduates. Extra-mural (Tutorial and Extension Classes), 999.

DEGREES. B.A., 29; M.A., 1; B.Sc., 29; M.Sc., 4; B.Sc. (Econ.), 5; B.Com., 1; Ph.D. (Econ.), 2.

UNIVERSITY COLLEGE OF NOTTINGHAM

Founded 1881

PRESIDENT—His Grace THE DUKE OF PORTLAND, K.G., G.C.V.O.

VICE-PRESIDENTS—Alderman Major T. P. BARBER, D.S.O., T.D., B.A., D.L., J.P.; H. H. BEMROSE, M.A., Sc.D., J.P.; Alderman E. HUNTSMAN; GEORGE SPENCER, J.P.; The Rt. Hon. LORD TRENT.

PRINCIPAL—H. A. S. WORTLEY, M.A. Camb., J.P.

REGISTRAR—H. PICKBOURNE, B.A. Lond.

LIBRARIAN—G. ELLIS FLACK, M.A. Camb.

Telephone: Beeston 54265.

TEACHING STAFF

Botany

Bennet-Clark, T. A., M.A. Dub., Ph.D. Camb. Prof.
Holden, H. S., D.Sc. Manc., F.L.S. (Palæobot.). Hon. Reader.
Bexon, Dorothy, M.Sc. Lond., F.L.S. Lectr.
Ellis, Myfanwy, M.Sc. Wales, F.L.S. Asst. Lectr.

Chemistry

Gulland, J. M., M.A. Ox., Ph.D. St. And., D.Sc. Edin. Sir Jesse Boot Prof.
Prideaux, E. B. R., M.A. N.Z., D.Sc. Lond., F.I.C. (Inorg. and Phys. C.) Reader.
Trotman, S. R., M.A. Camb., F.I.C. (Appl. C.) Pt.-time Lectr.
Laxton, F. C., B.Sc. Lond., A.I.C. Lectr.
Shaw, B. D., M.M., B.Sc., Ph.D. Lond., A.I.C. Lectr.
Roberts, J. C., B.Sc., B.Pharm. Lond., A.I.C., Ph.C. Lectr.
Barber, H. H., B.Sc., Ph.D. Lond., F.I.C. (Bio-Chem.) Lectr.
Bradbury, F. R., B.Pharm., B.Sc. Lond., Ph.C. (Pharm. Chem.) Lectr.
Edwards, E. G., B.Sc., Ph.D. Lond Asst. Lectr.
Doyle, A. W., A.M.C.T. Manc., A.I.C. (App. Chem.) Asst. Lectr.
Jackson, Jessie E. M., B.Sc. Lond. Research Asst.

Classics

Barker, E. P., M.A. Ox., D.Litt. Durh. Reader and Hd. of Dept.
Whittaker, Molly, B.A., M.Litt. Camb. Asst. Lectr.

Economics and Commerce

Radford, A., B.Sc. (Econ.) Lond. (Econ.) Reader and Hd. of Dept.
Blythen, S., O.B.E., F.C.A., F.S.A.A. (Acctcy.) Pt.-time Prof.
Howard, S. C. (Comm.) Lectr.
Wells, F. A., B.Sc. (Econ.), Ph.D. Lond. Asst. Lectr.
Lees, J. P., B.A. Camb. Asst. Lectr.

Education

Attlee, C. M., M.A. Ox. Prof.

Sr. Lectrs. and Tutors

Lewis, M. M., M.A., Ph.D. Lond.
Becket, Edith M., M.A., Ph.D. Lond.
Moncrieff, Agnes, M.A. Edin.
Sumner, W. L., B.Sc. Lond.
Stewart, A. H., B.A. Lond. Asst. Lectr.
And other pt.-time Lectrs. in Art, Handicraft, Hortic., Hyg. and Phys. Training.

Engineering, Civil

Bulleid, C. H., O.B.E., M.A. Camb., M.I.Mech.E. Prof.
King, J. W. H., B.Sc. Manc. Lectr.

Engineering, Electrical

Cotton, H., M.B.E., D.Sc. Manc., F.R.Met.S. Prof.
Golding, E. W., M.Sc. (Tech.) Manc., M.Amer.I.E.E. Lectr.
Thomas, D. H., M.Sc. (Tech.) Manc. Asst. Lectr.
Shute, G. F., B.Sc. (Eng.) Lond. Demr.

Engineering, Mechanical

Bulleid, C. H. (v. Engin., Civil) Prof.
Dickson, J. M., B.Sc. Lond., M.I.Mech.E. Senr. Lectr.
Rolinson, J. G. Lectr.
Ruddick, W. Instr.
Shute, G. F. (v. Engin., Elect.) Demr.

English

Pinto, V. de S., M.A., D.Phil. Ox. Prof.
Hewitt, R. M., M.A. Ox. (Comp. Lit.) Hon. Reader.
Selby, Alice, M.A. Camb. Sr. Lectr.
Griffiths, G. S., B.A. Wales, M.A., B.Litt. Ox. Lectr.

Lectrs. (Pt.-time)

De Castro, Inez, M.A. Ox.
Peck, Mrs. Anne P. (Phonetics).
Underwood, Mrs. Phyllis M. (Phonetics).
Stewart, A. H., B.A. Lond. Asst. Lectr.

French

Holdsworth, F., M.A. Sheff., D. de l'U. Paris Prof.
Guigou, Marguerite C., L. ès L. Lausanne Lectr.
Pickering, A. H. G., B.A. Lond. Asst. Lectr.

Geography

Edwards, K. C., M.A. Lond. Lectr.
Smith, G. I., M.Sc. Lond. Asst. Lectr.
Powell, A. G., B.A. Lond. Demr.

Geology

Swinnerton, H. H., D.Sc. Lond., F.G.S. Prof.
Richardson, W. A., O.B.E., B.A., D.Sc., B.Sc. (Eng.) Lond., F.G.S. (Petrology) Hon. Reader.
Clift, S. G., M.Sc. Lond., F.G.S. Lectr.

German

Schweizer, W. R., Ph.D. Berne Sr. Lectr.
Friesse, E., Ph.D. Rostock Lector.

History

Owen, L. V. D., M.A. Ox. Prof.
Oswald, F., D.Sc. Lond., F.S.A. (H. of Roman Brit.) Hon. Reader.
Brameld, Nina M., M.A. Lond. Sr. Lectr.
Wood, A. C., M.A., B.Litt., D.Phil. Ox. Lectr.
..... (Ancient H.) Lectr.

Italian

Threlfall, A. Pt.-time Lectr.

Law

May, H. R. D., M.C., M.A., LL.B. Camb.
Hd. of Dept., Sr. Lectr.

Pt.-time Lectrs.

Cursham, C. (Real Property).
McDonald, A. H., M.A. N.Z. and Camb., Ph.D. Camb. (Roman L.).
Brameld, Nina M., M.A. Lond. (Constit. Hist.).

Mathematics

Piaggio, H. T. H., M.A. Camb., D.Sc. Lond. Prof.
Green, H. Gwynedd, M.A. Camb. Reader.
Underwood, F., M.Sc. Lond. Lectr.
Prior, L. E., M.Sc. Lond. Asst. Lectr.
Dallas, A. E. M. Marta, M.A., B.Sc. Edin. Asst. Lectr.

Mining and Fuels

Collinson, P. L., B.Sc. Eng., B.Sc. Eng. (Min.) Lond., M.I.Min.E. Prof.
Bowen, A. R., Ph.D., D.Sc. Birm., F.I.C., M.Inst.P.T. (Petroleum Technology) Hon. Reader.
Watson, J. M. R., B.Sc. Glas., M.I.Min.E., M.I.M.S. Sr. Lectr.
Brown, H. R., B.Sc. Eng. (Min.) Lond., M.I.Min.E. Asst. Lectr.

Music [Pt.-time Lectr.

Veitch, W., B.A., D.Mus. Ox., A.R.C.M., L.R.A.M., F.R.C.O.

Pharmacy, v. also Chemistry

Bentley, A. O., Ph.C., M.P.S. Hd. of Dept., Reader.
Trease, G. E., B.Pharm. Lond., Ph.C., A.I.C., M.P.S., F.L.S. (Pharmacognosy) Lectr.
Turner, H. A., Ph.C., D.B.A., M.P.S. (Pharmaceutics) Lectr.
Mumford, F. R., B.Sc., B.Pharm. Lond., Ph.C. Asst. Lectr.
Stather, Mrs. C. (Mat. Med.) Pt.-time Asst. Lectr.

Philosophy

Sprott, W. J. H., M.A. Camb. (Logic and Psychol.) Reader and Hd. of Dept.

Physical Education

Williams, A. I. J., B.A. Ox. Lectr.

Physics

Bates, L. F., B.Sc. Bristol, Ph.D. Camb., D.Sc. Lond., F.Inst.P. Lancashire-Spencer Prof.
Davy, N., M.M., M.Sc. Lond., A.R.C.S. Sr. Lectr.
Franks, A. H., B.Sc. Lond. Lectr.
Browning, H. Mary, M.Sc., Ph.D. Lond., F.I.P. Lectr.
Yarnold, G. D., M.A., D.Phil. Ox. Lectr.

Physiology

Barber, H. H., B.Sc., Ph.D. Lond., F.I.C. Lectr.

Slavonic Languages

Lavrin, J. Prof.

Spanish and Portuguese

Chamberlain, G. L., M.A. Edin. Lectr.

Spoken Language

Lewis, M. M., M.A., Ph.D. Lond. Hd. of Dept.
Wilkins, Joyce L. Pt.-time Lectr.
Peck, Mrs. Anne P. Pt.-time Lectr.
Ellis, Mary Hon. Asst.

Textiles

Davis, W., M.A. Edin. Prof.
Boswell, W. E., F.T.I. (Hosiery Manufac.) Lectr.
Lomax, J., F.I.C. (Yarn Testing) Lectr.

Richardson, L. G. (Dyeing and Finishing) Lectr.
Buckley, G. H., F.T.I. (Hosiery Manufac.) Asst. Lectr.
Johnson, A., A.T.I. (Spinning and Weaving) Asst. Lectr.

Zoology

Barrington, E. J. W., M.A., B.Sc. Ox., F.L.S. Lectr.
Pyefinch, K. A., M.A. Camb. Asst. Lectr.

Adult Education

Peers, R., M.C., M.A. Liv. Prof.
Chambers, J. D., B.A., Ph.D Lond. Asst. Director.
2 Staff Tutors, 4 Organizing Tutors.

ASSOCIATED COLLEGE: MIDLAND AGRICULTURAL COLLEGE, Sutton Bonington. Subjects for the Final Examn. for the London B.Sc. in Agric. are taken at this College, those for the Intermediate only being taken at Univ. College, Nottingham.

GENERAL INFORMATION

The College was opened in 1881 and incorporated in 1903. A Supplemental Charter was granted in 1938. The Faculties of Arts and Pure Science and Depts. of Engineering occupy the University Park Buildings. The Depts. of Mining and Textiles occupy the Shakespeare Street Buildings.

LIBRARY. The Library of the College contains about 60,000 vols. and 22,000 unbound pamphlets—amongst which are great series, such as Migne, Corpus Inscriptionum Latinarum, Inscriptiones Graecae, Calendar of State Papers, Rolls. Special collections include the French Revolution and Napoleonic Collection, which originally formed part of the Crawford Collection, 2000 volumes; the Henry Mellish Meteorological Collection, 700 volumes; and a valuable collection of Slavonic literature, including a section devoted to Russian post-revolutionary literature, 900 volumes. The Library also possesses 11 MSS., 10 incunabula, and about 300 deeds, mainly of local interest. Current periodicals number over 400.

DEGREE COURSES. For London External degrees in Arts, Music, Econ., Com., Laws, Pure Science, Pharm., Agric., Engin., Mining; also for the First Medical Examn. at London and other Univs.; and for the first degree in Music of the Univ. of Durham.

POSTGRADUATE WORK. Courses and facilities for research in all depts. Postgraduate Diplomas in Adult Education and Technical Mycology.

DIPLOMA AND OTHER COURSES. Diploma of the College in Com., Engin. (Civil, Mech., Elec.), Mining, Fuel Technology, Higher Diploma in Textiles, Higher Diploma in Dyeing (each 3 yrs.); Social Studies, Geog., Hosiery Manufacture, Dyeing and Finishing, Colour and Design, Weaving (each 2 yrs.); Cambridge Certificate in Education; Teachers' Certificate of the Nottingham University Coll. and Associated Training Colls. Delegacy; Assoc'ship of the Insts. of Chem. and Physics; Law Society's Examns.; Pharm. Diplomas. Courses are arranged for the Administrative Group and other Civil Service examns.

Special course for foreign students in English Phonetics, English Language, English Literature, Translation, Economics, Commercial knowledge. A Certificate of Proficiency in English is awarded and students may also prepare for the Cambridge Certificate of Proficiency. Students may be admitted at the beginning of any term. There is also a Diploma course in English Studies

extending over one session (Oct.–June) open to foreign students who hold a Certificate of Proficiency in English. Tutor: S. C. Howard.

ADMISSION. Students under 17 not admitted without special permission of Principal. Students may be required to give satisfactory evidence as to character. All students residing outside the U.K. must submit references as to character and educational qualifications.

BOARD OF FACULTIES in Arts, Pure Science and Applied Science. Boards of Studies for Social Science and Courses in English for Foreign Students.

CAREERS AND APPOINTMENTS BOARD, Chairman: Professor H. T. H. Piaggio, M.A., D.Sc. Careers Adviser: A. H. McDonald, M.A.

ADVISER TO ORIENTAL STUDENTS: H. Gwynedd Green, M.A.

FEES. Tuition, per annum: Degree or Diploma courses in Arts, Commerce and Econ., 24 gs.; Pure and Applied Science, 30 gs.; Registration fee, £1 p.a.; Union fee, £1 : 15s. p.a. Courses in English for foreign students: Diploma in English Studies, £24 : 15s. p.a., Certificate of Proficiency, £5 : 15s. per term.

RESEARCH SCHOLARSHIPS. Four in Arts from £50 to £150 p.a.; four in Science (including three open scholarships, *see* Appendix II. 17) from £45 to £115 p.a.; other research studentships and grants.

RESIDENCE. Hugh Stewart Hall (Warden: P. P. Butters) and Mapperley Hall (Warden: K. A. Pyefinch) for men, the latter primarily for students in the Training Department, fee £65-£70 p.a. F. B. Hall, University Park (Warden: Miss I. de Castro) for women, fee £65 p.a. Students not accommodated in a Hall of Residence must live in College Registered Lodgings—30s. to 40s. per week.

UNIVERSITY EXTENSION. Extra-mural adult education is organized as a department of the Faculty of Arts. The Head of the Dept., a whole-time professor, is assisted by an Asst. Director and 2 staff tutors, 4 organizing tutors, and many part-time tutors and lecturers.

PUBLICATIONS. *Calendar* (Nov.), 2s. 6d.; *Prospectus* (Day), 6d., (Evening), 3d.; *The Gong*, 3 times a year; *Students' Handbook* (Oct.); *Diary* (Oct.), 1s. 6d.

THE YEAR 1937–38

BENEFACTIONS. Contributions amounting to £1749 towards the Endowment Fund. An additional £85 to the Hugh Stewart Memorial Bursary Fund, making a total of £1085.

NEW BUILDINGS. Completion of extensions, including dining-hall, common room and staff quarters, to the Hugh Stewart Hall of Residence for men students.

NEW DEPARTMENT. Department of Spoken Language established for a provisional period of one year. A lecturer appointed to give courses on Phonetics and Speech Training and to conduct classes for the correction of defects in the speech of students, both English and Foreign.

OTHER DEVELOPMENTS. Supplemental Charter and New Statutes granted by His Majesty's Privy Council in March 1938, providing for a wider representation of the whole of the East Midland Area on the Court of Governors and on the Council. Diploma course in English Studies extending over one session, open to foreign students who hold a Certificate of Proficiency in English. Diploma course in Textiles, principal subject Weaving, extending over two years. Conditions of entry as for other diploma courses in Applied Science.

Recognition granted for the nomination of candidates for regular commissions in the Engineering Branch of the Royal Navy, in the Regular Army, and in the General Duties Branch of the Royal Air Force.

EXTRA-MURAL WORK. The number of Classes and Courses was 248 as against 242 in the previous session. During the session 62 Tutorial classes, 60 One-Year classes, 78 Terminal courses, 18 Short Terminal courses, 30 University Extension courses were held. The number of students attending these classes was 4487.

PUBLIC FOUNDATION LECTURES. Byron Foundation Lecture, Bertrand Russell, "Byron and the Byronic"; Cust Foundation Lecture, Prof. E. H. Carr, "Great Britain as a Mediterranean Power"; Sir Jesse Boot Foundation Lecture, C. A. Masterman, "Coal Gas in the Home and Industry"; Abbott Memorial Lecture, D. A. Wray, "The Origin and Growth of the Pennines"; Montague Burton International Relations Lecture, the Hon. Harold Nicolson, C.M.G., M.P., "The National Character of National Policy: Britain—France—Italy—Germany."

RETIREMENTS. Prof. E. Weekley (Romance Language); J. E. Shimeld (Registrar).

RESIGNATIONS. R. E. Ford-Smith (Classics), on appt. as Lecturer in Classics at Trinity College, Toronto. Prof. R. M. Hewitt (Eng.), on account of ill-health. M. P. Leveque (French), on termination of appt. Dr. J. B. Firth (Chem.), on appt. as Home Office Expert and Director of the Forensic Science Laboratory of the North-Western Area. Dr. J. E. Driver (Chem.), on appt. as University Demonstrator in the University of Cambridge. C. P. Edwards (Elec. Engin.), on appt. as Technical Officer, Royal Air Force.

STUDENTS. Full-time, 570; graduates, 81. Part-time and occasional, 305. Evening students, 4580; graduates, 15. Extra-mural, 4487.

DEGREES. B.A., 34; B.Sc., 46; B.Sc. Econ., 2; B.Com., 2; B.Pharm., 3; B.Sc. Eng., 4; B.Sc. Min., 2; M.A., 2; M.Sc., 3; Ph.D., 8.

UNIVERSITY COLLEGE, SOUTHAMPTON

Founded 1850

VISITOR—H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.P., K.T.

PRESIDENT—Rt. Hon. LORD MOTTISTONE, C.B., C.M.G., D.S.O., T.D.

VICE-PRESIDENT—.....

TREASURER—E. GIBSON FLEMING.

PRINCIPAL—KENNETH H. VICKERS, M.A Ox.

REGISTRAR—GEORGE GRANT, B.A. Liv.

LIBRARIAN—Miss D. P. POWELL, M.A. Ox.

Telephone: Southampton 74071, 74072.

TEACHING STAFF

Accountancy

Couzens, J. V., F.S.A.A. Lectr.
Mills, S. E. D., A.C.A., A.T.I. Lectr.

Botany

Mangham, S., M.A. Camb. Prof.
Loader, Miss F. M., B.Sc. Lond. Lectr.
Arney, S. E., B.A. Ox. Asst. Lectr.
Lane, G. R., B.Sc. Lond. Demr.

Chemistry

Adam, N. K., M.A., D.Sc. Camb., F.R.S., F.I.C. Prof.
Lawson, A., B.Sc., Ph.D. Glas. Lectr.
Denbigh, K. G., B.Sc., Ph.D. Leeds Lectr.
Campbell, Ishbell G. M., B.Sc., Ph.D. St. And. Asst. Lectr.
Balson, E. W., B.Sc. Lond. Demr.
Topps, J. E. C., B.Sc. Lond. Demr.

Classics

Forsey, G. F., M.A. Lond. Prof.
Holley, Miss N. M., M.A. Camb. Lectr.
Pope, Rev. R. M., M.A., B.D. Camb. (Hellenistic Gk. and Early Christian Lit.) Hon. Lectr.
Cook, G. G., M.A. Lond. Asst. Lectr.

Economics and Geography

Ford, P., B.Sc. (Econ.), Ph.D. Lond. Prof. of Econ. and Hd. of Dept. of Geog.
Hodgson, R. A., B.Com. Lond., Dip. in Pub. Admin. Lectr.
Miller, Miss F. C., B.A. Leeds Sr. Lectr.
Tavener, L. E., M.A. Camb. Lectr.
Boswell, Miss K. C., B.A., M.Sc. Lond. Lectr.
Green, F. H. W., B.A., M.Sc. (Econ.) Lond. Asst. Lectr.

Education and Philosophy

Cock, A. A., B.A. Lond. (to 30.9.39) Prof.
Dudley, G. G., B.A. Lond., LL.B. R.U.I. (Logic) Sr. Lectr.

Lecturers
Hales, Miss R. B., M.A. Ox.
Harry, H. T., B.Sc. Bristol.
Ackroyd, J. W., B.A. Camb.

Asst. Lectrs. (part-time)
Ricks, Miss E. M. (Phys. Training and Hyg., Women).
Anderson, G. W. (Phys. Training and Hyg., Men).
Russell, L. G. (Handicraft).

Engineering
Cave-Browne-Cave, Wing Commander T. R., C.B.E., R.A.F. (retired), M.I.M.E., M.I.N.A., F.R.Ae.S. Prof.

Engineering, Aeronautical
Tanner, T., A.C.G.I., D.I.C., A.F.R.Ae.S. Lectr.
Ford, G. P. Asst. Lectr.
Moyle, R. C., M.I.Mar.E. Asst. Lectr.

Experimental Engineers
Leech, H., A.M., A.F.R.Ae.S.
Jenkins, W. Asst.

Engineering, Civil [Sr. Lectr.
Mann, E. E., M.Sc. (Eng.) Leeds.

Engineering, Electrical
Spary, P. G., B.Sc. (Eng.) Lond., M.Eng. Sheff., M.I.E.E., M.A.I.E.E. Sr. Lectr.
Chester, C. E., B.Eng. Sheff. Lectr.

Engineering, Marine
Sword, J. H. Lectr. in Charge.

Engineering, Mechanical
Glover-James, H., B.Sc. (Eng.) Lond., Dip. Eng. Edin. Lectr.

English Lang. and Lit.
Wright, B. A., B.A. Ox. Prof.
Leishman, J. B., M.A., B.Litt. Ox. Lectr.
Potter, S., M.A. Lond., B.Litt. Ox., Ph.D. Prag. Lectr.

Geology and Zoology
Sherriffs, W. R., M.A., D.Sc. Aberd., F.L.S. Prof.
Hall, R. E., B.Sc. Lond., A.R.C.S. Asst. Lectr.
Hockley, A. R., B.Sc. Lond. Asst. Lectr.
Berry, J., M.A. Camb., Ph.D. St. And. Avon Res. Officer.
Moon, H. P., M.A. Asst. Avon Res. Officer.

History
Betts, R. R., B.A. Ox. Prof.
Quinn, D., B.A. Belf., Ph.D. Lond. Lectr.
Hurstfield, J., B.A. Lond. Asst. Lectr.

Law
Turner, G., M.A. Camb. Director of Legal Studies.

Asst. Lectrs. (part-time)
Groves, L. G., LL.B. Lond.
Stanier, J. G., LL.B. Lond.
Page, R. Graham, LL.B. Lond.

Mathematics, Pure and Applied
Ruse, H. S., M.A. Ox., D.Sc. Edin. Prof.
Trout, Miss A. M , B.A. Lond. Lectr.
Maunsell, F. G., M.A., Ph.D. Camb. Lectr.
Casson, R., M.A. Camb. Hon. Lectr.
Pedoe, D., B.A. Asst. Lectr.
Storer, W. O., B.A. Camb. Demr.

Modern Languages
Lawton, H. W., M.A. Wales, D. de l'U. Paris Prof. (French) in Charge of Dept.
Hamilton, Miss G. H. (French and Spanish) Lectr.
Lucas, W. I., M.A. Brist., Ph.D. Heidelberg (German) Lectr.
Ladborough, R. W., B.A., Ph.D. Camb. (French) Asst. Lectr.
Clarke, L., M.A. Camb. (French) Ant. Lectr.
Neuschaeffer, W., Ph.D. Heidel. (German) Lektor.
Behar, R., L. ès L. Bordeaux Lecteur.

Music

Williams, D. C., B.Mus. Durh., F.R.C.O. Lectr. in Charge.

Navigation

Wakeford, G. W., R.N.R., F.R.S.A.
Dir. of Navigational Studies.
Branch, Lieut. W. J. V., R.N.R. Senr. Lectr.
Stewart, H. Lectr.
Nicholls, A. Lectr.
Stoodley, L. G., B.Sc. Lond. Lectr.
Judd, H. C. Pt.-time Lectr.
Moyle, R. C., M I.Mar.E. Lectr.
Shelley, W., R.N. (Retd.) Pt.-time Instr.
Shenton, T., R.N. (Retd.) Pt.-time Instr.
Ings, H. J. Pt.-time Instr.

Philosophy, v. Educn.

Physics

Menzies, A. C., M.A. Camb., D.Sc. Lond., F.I.P. Prof.
Weintroub, S., M.A. Ox. Lectr.
Howell, H. G., B.Sc., Ph.D. Lectr.
McNeill, P. B., M.Sc., Ph.D. Belf. Lectr.
Weissenberg, K., Ph.D. Jena Guest-Prof.

Theology

Tindall, Rev. F. C., B.D. Tutor and Lectr.

Zoology, v. Geol.

Extra-mural Studies

Secretary: J. Parker, M.A. Durh.
Tutor Organisers: J. R. Armstrong, M.A., W. Taplin, B.A., B.Com.

GENERAL INFORMATION

Founded 1850; opened as the Hartley Institution, 1862. Incorporated as the Hartley University College under a scheme of the Board of Education, 1902.

The Library, 51,277 vols., of which 6500 are unbound, includes the Cope collection of Hampshire books, pamphlets, and broadsheets.

The Cotton Collection of Birds is housed at the College. This collection is unique, and represents many types of birds unprocurable for any collection at the present day.

The College provides courses in Arts, Science, Commerce, Engineering (Civ., Mech., Elec., Aeronautical), Music and Law in preparation for the External degrees of the Univ. of London; for entrance into the Civil Service and for first-yr. studies in Medicine, Pharmacy, Surveying, etc. It is recognized as a Training College for Teachers. The Department of Law (instituted in 1923) is recognized as a Law School under the Solicitors Act. The School of Navigation is recognized by the Board of Trade. There is special provision for aeronautical instruction (5 ft. wind tunnel); aircraft manufacturing firms in district provide opportunities of keeping in close touch with practical aircraft construction. The College also provides courses in Marine Engineering.

Special courses in English (Phonetics, Conversation, Composition, Translation, Modern English Literature, Commercial and Economic Knowledge, History of British Institutions) are provided for foreign students leading to the Certificate of Proficiency in English issued by the University of Cambridge. Minimum course of study one term, but students are strongly recommended to devote 2 or 3 terms to the course. Supervisor of Foreign Students: Dr. S. Potter.

Through its evening classes (attended by about 1000 students) the College performs the function of a Senior Technical Institute.

The Associateship of the College (Assoc. U.C.S.) implies, unless honorary, attendance during 2 yrs. (4 yrs. for evening and part-time students).

There are special courses in Social Studies for graduates and others, and diplomas and certificates are awarded.

ADMISSION. Candidates aged 16 (though students are advised not to enter below 18) are admitted provided they (1) produce a satisfactory testimonial of good conduct from a headmaster, headmistress, or some other responsible person; (2) have either (*a*) passed or obtained exemption from the matricn. examn. of the Univ. of London, or (*b*) passed the Entrance Examn. of the Coll.; or (*c*) hold such qualifications as Senate from time to time may recognize. Each full-time student is placed under the supervision of a member of the Staff, who acts as his Tutor.

Part-time students may in special circumstances be admitted to separate courses without passing the Entrance Examn.

FEES. The annual fee is £25 for Courses in Arts, Commerce, and Music; £32 for Courses in Science and Engineering; and £30 for the Teachers' Diploma Course. Students whose parents are ratepayers within County Borough, Southampton—£18 : 15s., £22 : 10s., and £24 respectively.

Students' Union, composite fee, £2 : 10s. p.a.

EXHIBITIONS AND SCHOLARSHIPS. The Coll. offers annually 10 open Exhibitions (free tuition); 7 open Scholarships; the Seymour J. Gubb Scholarship; the Alex Hill Memorial Scholarship; and the John Scott-Montagu Scholarship, all tenable for 3 yrs. Two of the Scholarships are of the annual value of £100, and the others £70, for students coming into residence. All Scholarships are of the annual value of £40 for non-residential students. The holders are required to pay tuition fees.

SCHOLARSHIPS FOR GRADUATES. Post-graduate Research Scholarships. *See* Appendix II. 1 and 10. Loan fund for senior students.

RESIDENCE. All full-time students must ordinarily reside in one of the Halls of Residence unless they are living with their parents or legal guardians. Halls for men: South Stoneham (Warden: Prof. A. A. Cock, B.A.), Connaught (Warden: Rev. F. C. Tindall, B.D.); for women: Highfield (Warden: Miss E. U. Lightbody, M.A.). Fees, £60 : 5s.-£67. The provision of lunches and teas is not included in the Hall fees.

APPOINTMENTS BOARD. Chairman—F. E. Wentworth-Sheilds. Secretary —R. Casson. M.A.

EXTRA-MURAL WORK. Extension classes are organized through the Extension Committee of the Extra-mural Board of the Coll. Courses of lectures are given by members of the Staff and other approved lecturers. Tutorial classes in connexion with the Workers' Educational Association are organized by a Joint Committee in the usual manner.

PUBLICATIONS. *Calendar* (Sept.), free; Halls of Residence Prospectus free; *Students' Magazine*, 6d.; *Wessex Magazine* (June), 1s. 6d. annually.

THE YEAR 1937–38

BENEFACTIONS. Donations to the College during the Session amounted to £10,716.

EXTRA-MURAL WORK. Extension classes are organized through the Extension Committee of the Extra-mural Board. Courses of lectures are given by members of the Staff and other approved lecturers. Tutorial classes in con-

nexion with the Workers' Educational Association are organized by the Joint Committee in the usual manner.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. Herbert Davis of Cornell Univ. visited the Dept. of English on 9th December 1937, and lectured on "Swift's Drapier's Letters." Prof. V. Bohet of the Univ. of Liége visited the Dept. on 18th February 1938, and spoke to the Honours discussion class on "Modern English Drama."

PUBLIC LECTURES, PLAYS, ETC. Prof. G. P. Gooch, "German Culture"; Sir Malcolm Campbell, "World Speed Records on Land and Water"; Mr. W. Dring, "The Figure in Art"; Mr. Basil Ward, "The Underlying Principle of Architecture"; Lt.-Col. P. H. Hansen, V.C., D.S.O., M.C., "Revolt in Palestine"; Prof. V. Bohet, "Pacifism and the French Intellectuals"; Prof. V. de S. Pinto, "Tom Paine, The International Man."

French Players, "Gringoire and Le Médecin malgré lui," and "Les Romanesques."

Symphony Concert.

RESIGNATIONS. N. Bachtin (Classics), on appt. as Lecturer in Univ. of Birmingham. W. H. George (Physics), on appt. as Head of the Dept. of Physics, Chelsea Polytechnic. D. H. Guest (Maths.), to take up a non-university appointment. Has since been killed in the Spanish Civil War. G. H. Jeffrey (Chem.), on appt. as Lecturer in Chem. at Woolwich Polytechnic. Mlle M. J. Laboulle (French), to take up scholarship in Paris, awarded by British Federation of University Women. V. de S. Pinto (English), on appt. as Professor of English at Univ. College, Nottingham.

NEW POSTS. Professorship in Economics and Head of the Dept. of Geography; Senior Lectureship in Geography; Lecturer in Charge of the Dept. of Marine Engineering; additional Lectureship and part-time Assistant Lectureship in Navigation.

STUDENTS. Full-time: 314, including 86 graduates. Part-time: 430 (day classes); 922 (evening classes).

DEGREES. B.A. Hons. 24, Ord. 9; B.Sc. Special Hons. 6, Ord. 11; B.Sc. General Hons. 2, Ord. 10; B.Sc. Engin. Ord. 2; B.Sc. Econ. Hons. 4, Ord. 2.; M.Sc. Physics, 1.

ST. DAVID'S COLLEGE, LAMPETER

Founded 1827

VISITOR—THE RT. REV. THE BISHOP OF ST. DAVID'S.

PRINCIPAL—Rev. H. K. ARCHDALL, M.A. Camb., Th. Soc. Australia.

Telephone: Lampeter 42.

Profs.—*Theol.*, The Principal; *Science*, J. C. Evans, M.A. Ox.; *Engl. and Phil.*, H. Walker, M.A. Ox., LL.D. Glas., D.Litt. Wales; *Welsh*, Rev. R. H. Richards, M.A. Ox.; *Hebrew and Theol.*, Rev. A. E. Morris, M.A. Ox., B.D.; *Latin and Greek*, H. A. Harris, M.A. Ox.

Lectrs.—Dawson, D., B.A. Leeds, M.Litt. Camb. (*Hist.*); Morgan, Rev. Wm. H., B.D. Lond., B.A. Wales (*Theol.*); Rowlands, Rev. E. C., M.A. Camb. (*Classics*); Thomas, Ven. Archdeacon D. W., M.A. Ox., B.A. (*Pastoral Theol.*), Hon. Lectr.; David, Rev. F. J. T., M.A. Ox., B.A. (*Hist. and Theol.*); Newte, F. R., B.A. Ox. (Classics).

The College was founded in 1827 for the purpose of affording to persons intended for the Ministry of the Church, especially in Wales, a sound and liberal education on the lines of that offered by the older Universities. Incorporated by Royal Charter, it is empowered to confer degrees in Arts and Theology. Residence for nine full terms and the passing of three examns. conducted by examiners appointed by Oxford and Cambridge are requisite for B.A., ten terms for B.D.

SCHOLARSHIPS. The Dillwyn Llewelyn Trust provides £150 p.a. from which scholarships are granted to students proceeding to Oxford or Cambridge under the Affiliation regns. The Evan Jones scholarship in Hellenistic Greek is tenable by a post-grad. student.

ADMISSION. Candidates can be matriculated (1) on the result of the Coll. Scholarship Examn. provided they have passed in English, Elem. Maths., and two other subjects specified for matricn.; (2) on a certif. of any matricn. examn. of a U.K. Univ. or any certif. exempting from Oxford Responsions or Cambridge Previous examn.; (3) on the School Certif. of the Ox. and Camb. Schools Examn. Bd. or the Central Welsh Bd. or Ox. and Camb. Local Examns. in English and Maths. (with credit), and any two subjects of the Coll. matricn. examn.; (4) on passing the Coll. matricn. examn. in Engl. Essay, Engl. Hist., Maths., and any two of—Latin, Gk., Engl. Lit., Welsh, French, German, Addnl. Maths., Phys. Sci. Further particulars from the Principal.

POST-GRADUATE STUDY. A grant of £10 p.a. is offered to grads. and licentiates of the Coll. and to grads. of any recognized Univ. for post-grad. study in Theol.

LICENTIATE IN DIVINITY. A Licentiate in Divinity is conferred on students admitted to a biennial course (mainly theological) on a certif. from a Bishop.

DIPLOMA IN THEOLOGY. A Dip. in Theol. is granted to grads. of the Coll. or of any Univ. who reside for 2 yrs. and pass the necessary examns. after qualifying for their Arts degree. The Dipl. is accepted as an alternative to the Genl. Ordination Examn. of the Church of England.

STUDENTS (1937–8), 200, including 53 graduates.

DEGREES OBTAINED IN 1938. B.D., 2; B.A., 39.

THE SCOTTISH UNIVERSITIES

ST. ANDREWS ABERDEEN
GLASGOW EDINBURGH

REPRESENTATIVES IN PARLIAMENT, *see* p. 18.

IN CONSTITUTION these 4 Universities have, under the operation of the Univs. (Scotland) Acts 1858 and 1889, been to a great extent assimilated. By the former Act 2 new bodies, called the Univ. Court and General Council, were instituted; by the latter a Committee of H.M.'s Privy Council was constituted, and an Executive Commission was created with extensive powers, which it continued to exercise till the end of 1897. These Commissioners issued ordinances, *inter alia*, for degrees, for the instruction and graduation of women, for special study and research, and for the constitution of a Students' Representative Council with power to petition the Senatus Academicus and the Univ. Court.

The *Chancellor* is elected (for life) by the General Council, of which he is President. He is empowered to nominate a *Vice-Chancellor*, who may confer degrees in his absence, but cannot discharge any other of his duties. The Vice-Chancellorship is at the present time held in each Univ. on the Chancellor's nomination by the *Principal*, who is appointed to the Principalship by the Crown (except in Edinburgh) and is President of the Senatus Academicus, and, in the absence of the Rector, of the Univ. Court. The *Rector* is elected every 3 years by the matriculated students. He is the official President of the Univ. Court.

The *University Court* consists of the Rector, Principal, the Lord Provost of the City (in St. And. the Provost of St. Andrews and Lord Provost of Dundee), and Assessors appointed by the Rector, Chancellor, Senatus, General Council, and (except in St. Andrews) Town Council. In St. Andrews the Principals of St. Mary's Coll. and Univ. Coll., Dundee, are also included in it. There is provision for the representation of other affiliated Colleges. The Court, a body corporate with full power to administer the property belonging to the Univ., is a Court of Appeal from the Senatus, and has power, since the expiration of the powers of the Commrs. under the Act of 1889, to found new chairs with the approval of the Univs. Committee and make other ordinances with the approval of H.M. in Council. It has, *inter alia*, powers to appoint professors whose chairs are in the patronage of the Univ., examiners and lecturers; to define the nature and limits of a professor's duties under his commission; and to recognize for graduation purposes the teaching of any College or individual teacher, under the regns. providing for such recognition.

The *Senatus Academicus*, consisting of the Principal, the whole of the Profs., and certain elected Readers and Lecturers, is entrusted with the regulation and superintendence of the teaching and discipline of the

Univ. The administration of the Libraries and Museums is entrusted to Joint Committees elected two-thirds by the Senatus and one-third by the Court.

The *General Council* consists of the Chancellor, the members of the Univ. Court, the Profs., such Lecturers and Readers as have held office for a year, and the Graduates of the Univ. It meets twice a year and may hold special meetings at the instance of the Chancellor. Proposed improvements in the arrangements of the Univ. must be submitted to the Council for their consideration.

The General Councils of the four Universities elect three *Members of Parliament.*

FACULTIES. In all the Univs.—Arts, Science, Divinity, Medicine (St. Andrews—Dept. of Dentistry). In all except St. Andrews—Law. In Edin.—Music (Glasgow has a department and offers degrees in Music). In Glas. and Aberd.—Engineering (Edin. and St. And. have departments and offer degrees in Engineering, although not a separate Faculty).

TERMS. The academic year is divided into three terms—Oct. to Christmas, Jan. to March, April to June or early July.

ADMISSION. *See* Appendix I.

DEGREES and courses leading thereto (v. also p. 4 ff.). The *M.A.* (ordinary) course (there is no B.A.) extends over 3 yrs. and includes (for ordinary degree) subjects from 3 of the 4 departments of the Faculty, namely Lang. and Lit., Ment. Philos., Science, Hist. and Law. (There are further restrictions at St. Andrews and Edinburgh.) A candidate for the degree must not only have regularly attended, but also have duly performed the work of the classes in the qualifying courses. The first 2 yrs. may be taken in any of the Scottish Univs. The Senatus may accept attendance given and examns. passed at other Univs specially recognized for the purpose, if qualifying courses for at least 2 yrs. (St. And. and Edin., 1 yr.) are attended and the Degree examns. are passed in the Univ. granting the degree. For the purpose of reckoning duration of study an academic yr. is constituted by attendance on at least 1 course (Glas. and St. And., 2 courses) of study in each of the 3 terms. For M.A. (Hons.) 4 yrs.' study is generally required.

The *B.Phil.* and *B.Litt.* are conferred only by St. And. A candidate for either of these degrees must take the M.A. either before or along with it. The standard of the Final examn. is that of the M.A. Honours.

The *B.Com.* conferred by St. And., Aberd., and Edin. may be taken, under conditions as to place of study similar to those for the M.A., after courses covering at least 9 terms.

The *B.Ed.* or *Ed.B.* involves a 2 yrs.' course subsequent to the first 3 yrs. of study for a previous degree, in addition to professional training or experience as a teacher.

The practical part of the training of students preparing for the Teaching Profession is provided by the several Provincial Committees, which likewise recognize attendance at Univ. classes as qualifying in part for their certificates.

The B.Sc. in Pure Science. The course for the ordinary degree covers 3 yrs. (Edinburgh 4 yrs.) and includes from 6 to 9 courses, of

which 4 or 5 (St. And., 2) must be taken in the Univ. which is to grant the degree. The other courses may be taken in other Univs. or Institns. approved, or under teachers recognized for this purpose, by the Univ. Court. The degree with Honours, which may be taken in any of the various branches, requires 4 yrs., and is of a standard not less high than that required for M.A. (Hons.).

The B.Sc. in Applied Science can be obtained as follows: Engineering (St. And., ord. and hons., 3 yrs.; Edin., ordinary and honours, both 3 yrs.; Glas., 4 yrs., the branches in which honours are obtainable being Civ., Mech., Elec., Mining, and Chemical E., and Naval Archit.; Aberd., Civ., Mech., Elec., ordinary and honours, 3 yrs.). Mining Engineering (Edin., ordinary and honours, 4 yrs.). Applied Chemistry (Glas., honours, 4 yrs.). Technical Chemistry (Edin., ordinary and honours, 4 yrs.). Architecture (Glas., honours, 4 yrs.). Agric. (Aberd., Edin., and Glas., ordinary, 3 yrs.: honours, 4 yrs.). Forestry (Aberd., ordinary, 3 yrs.; Edin., ordinary, 3 yrs.; honours, 4 yrs.). Pharmacy (Glas., 4 yrs.). Public Health (Glas., 2 yrs. after graduation in Med.). Vet. Sc. (Edin., 4 yrs.).

Higher Degrees in Arts and Science. The D.Sc. in Pure Science, in Engin. (Edin., Glas., St. And.), Pub. Health (Glas.), Mining (Edin.), Tech. Chem. (Edin.), Agric. (Edin.), Forestry (Edin.), and Vet. Sc. (Edin.), and the D.Litt. are open to graduates of 5 yrs.' standing. A thesis is required and, except in the case of a graduate of a Scot. Univ. with an Honours degree (St. And., an Honours graduate of the Univ. granting the degree), research under supervision extending over 2 yrs. in the Univ. which is to grant the degree. These degrees are never granted *honoris causa.*

Divinity. The B.D. examn. of any of the Univs. is open to a graduate in Arts of a Scottish or other approved Univ. or the holder of any Univ. Degree or Diploma recognized as an equivalent by the Univ. Court who has completed his Theol. course (3 yrs.), of which not less than 2 yrs. has been in the Univ. in which he proposes to take the B.D. All the examns. must be passed at the Univ. granting the Degree. The D.D. is honorary. The Gifford Lectures in Natural Theology are open to the general public.

Law. The B.L. course (3 yrs.) is open to students who have passed the Prelim. or its equivalent. Candidates for the degree must produce evidence of a sufficient knowledge of Latin before entering the Class of Civil Law. The LL.B. (3 yrs.) is open to graduates in Arts of a Univ. of the U.K. or any other specially recognized.

Of the B.L. course 1 yr. and of the LL.B. 2 yrs. may be spent in any specially recognized Univ. or School of Law.

St. And. does not at present provide full courses for or grant these degrees.

The LL.D. is honorary.

Medicine. Three of the requisite 5 yrs. of medical study for the M.B. and Ch.B. may be spent in any Univ. of the U.K. or other Institn. specially recognized for the purpose or under a teacher recognized by the Univ. A candidate who has at any such Univ. completed a course and passed an examn. in Chem., Physics, or Biology qualifying for a

degree in Science, Arts, or Med. may be exempted by the Senatus from the corresponding part of the M.B., Ch.B. examns. Aberd., Edin., and St. And. extend this concession to courses and examns. in Anatomy and Physiology qualifying for a degree in Science (St. And.—or Arts or Med.; Edin.—or Med.).

A graduate in Medicine of at least 24 yrs. of age who has, subsequent to graduation, been engaged for at least 1 yr. in attending the Med. (or Surg.) wards of a hospl., or in scientific work bearing directly on his profession, or in the Naval, Milit., Colonial (Aberd., Edin., Glas.), or, for the M.D. (St. And.—M.D. or Ch.M.), Pub. Health Med. Services, or 2 yrs. in practice not restricted to Surg. (or Med.), and passed the prescribed examn. and submitted a satisfactory thesis, may be admitted M.D. or Ch.M. as the case may be.

Dentistry. *See under* St. Andrews.

Ph.D. *See* p. 13.

Previous to the institution of a Ph.D. degree (Aberdeen, 24 March 1921, Edinburgh, 25 November 1919; Glasgow and St. Andrews, 18 August 1919), a Doctor of Philosophy degree, D.Phil., was conferred.

FEES. *See under* the separate Universities.

RESEARCH OR SPECIAL STUDY may be prosecuted in a Univ. under supervision by persons suitably qualified, whether graduates or not, admitted by the Senatus. Access to and the use of the Univ. laboratories, etc., may be obtained on such conditions as to payment and otherwise as the Univ. Court may determine. The title of Research Fellow may be conferred with or without a stipend on specially distinguished research students.

SCHOLARSHIPS. Adequate provision is made for affording Univ. instruction and maintenance to students of small means in Scotland. Besides the Carnegie Trust benefactions (v. *infra*) and the numerous bursaries, etc., awarded by the Universities and the Trustees of unattached educational endowments, all Scottish Education Authorities make provision in their Bursary Schemes for assisting duly qualified persons resident in their areas, and needing such assistance, to attend a University, Training College, Central Institution, etc. The sum so spent by Education Authorities in the financial year 1937–38 was £100,567.

Scholarships, etc., for Graduates. The following are open to graduates of all the Scot. Univs.: (1) Carnegie Scholarships (£150) and Fellowships (£250) and grants in aid of Research. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh. (2) Ferguson—six of £110 each for 2 yrs. for graduates in Arts. Ferguson Bequest Fund, 94 Bath St., Glasgow. (3) M'Cunn—four of £200 for 1 yr., for medical research. M'Cunn's Trustees, 160 West George St., Glasgow. (4) Shaw Philosophical—£215 for 3 yrs. for graduates in Arts (in the Patronage of Edinburgh Univ.). (5) Black—in Greek, £196 for 1 yr. for graduates in Arts distinguished in the B.D. examns. (6) Hume Brown—in Scottish History, £90 for 1 yr. for graduates in Arts; managed by the Univ. of Edin. (7) Maclean (Semitic Languages), £175 for 1 yr. for graduates in Arts preparing to enter the Ministry

of the Church of Scotland; managed by the Univ. of Glasgow. (8) Crombie (Biblical Criticism), £50 for 1 or 2 yrs. for graduates in Arts with First Class Hons. in Classics; managed by St. Andrews. (9) Shaw Macfie Lang, £200 for 2 yrs., for Hons. Graduates in various Faculties in rotation; (10) 7 Richard Brown, £64 for 1 yr., for graduates or undergraduates of any Univ., in various Faculties in rotation; managed by Edinburgh.

Exchange Scholarships. Stevenson Exchange Scholarships, founded by Sir Daniel M. Stevenson, Bt., LL.D. (1) In German, founded 1932, two scholarships covering board, lodging and tuition (but not travelling expenses) at a German University for one session. Open to undergraduates of any Faculty and graduates of not more than 25 yrs. of age, men and women, of any Scottish University. Applications in special cases will be considered from candidates up to 35 yrs. of age and from candidates who have not yet matriculated but who intend to take a degree in a Scottish University. Forms obtainable from, and applications to be sent not later than May 15 to, the Secretary of any one of the four Universities. (2) In French, founded 1935, two scholarships value £75 tenable at a French University for one year. Other conditions as for German Scholarships. (3) In Spanish, founded 1935, two scholarships value £75, tenable at a Spanish University for one year. Other conditions as for German scholarships.

Two scholarships offered by the Akademischer Austauschdienst of Berlin, representing the German Universities, tenable for 1 yr. from the middle of Oct. to the middle of Aug., covering free tuition and either board and lodging or an allowance during the 10 months' tenure (the decision resting with the German University authorities). Open to graduates of not more than 3 yrs.' standing and to students graduating during the current year, in any Faculty, men and women. Applicants should state the German University they prefer, but no guarantee can be given that they will be sent there. Applications by May 31. Forms, etc. as under (1) above.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Offices at Merchants' Hall, 22 Hanover Street, Edinburgh. Secretary, Jas. Robb, LL.D.; Treasurer, Jas. Davidson.

The annual income of the Trust is about £125,000, one half of which is devoted to (A) the improvement and expansion of the Universities of Scotland in the faculties of Science, Medicine, History, and Mod. Langs., and extending opportunities for scientific study and research, and Technical or Commercial Univ. education; the other half to (B) assisting Scottish students in the payment of Univ. class fees. Any surplus not required for (B) in any year is to be devoted to (A) (v. App. II. 1). Instns. in Scotland recognized by the Executive Committee of the Trustees as preparing students for graduation or as providing technical or commercial edn. of Univ. level are entitled to participate as regards (A) and their students as regards (B). Any surplus not required for (A) or (B) may be devoted to Univ. Extension work.

The Regulations for Assistance in the payment of Class fees provide,

inter alia, that applicants should hold the Leaving Certif. of the Scottish Educn. Dept. with a minimum of three higher grade passes and bearing evidence of such preliminary education as is required by the Univs. for their respective graduating curricula. Where for satisfactory reasons such Leaving Certif. has not been obtained, the Exec. Committee may accept instead what they deem equivalent evidence of attainments, provided that no applicant will be eligible who has not obtained three higher grade passes or who has to pass any further prelim. examn. before beginning his graduating curriculum. Class Fees paid for 1937–38: St. Andrews—£4224 : 18 : 2 for 269 beneficiaries; Glasgow—£27,042 : 16s. for 1448; Aberdeen—£8572 : 19s. for 532; Edinburgh—£11,732 . 11 : 6 for 792.

The annual report of the Executive Committee contains reports of experts on the work of beneficiaries under the Research Scheme and lists of papers published by them. Research Fellowships, Scholarships and Grants awarded for 1937–38: St. Andrews—35, value £4104; Glasgow—35, value £4817; Aberdeen—18, value £1996; Edinburgh—45, value £5529. Total—133, value £16,446.

Under a Seventh Quinquennial Scheme of Distribution for the period from Oct. 1, 1935, to Sept. 30, 1940, there has been allocated a sum of £257,300, distributed thus: St. Andrews centre—£43,400; Glasgow—£79,000; Aberdeen—£56,500; Edinburgh—£78,400. Of these amounts, £10,000 has been granted to Glasgow, £10,500 to Aberdeen and £9500 to Edinburgh for Extra-mural Institutions. The purposes on which these amounts were to be expended are: for Libraries, £38,750; for Buildings and Permanent Equipment, £177,550; and for the Endowment of Teaching and for other general purposes, £41,000.

UNIVERSITY OF ABERDEEN

Founded 1494

CHANCELLOR—The Right Hon. BARON MESTON OF AGRA AND DUNOTTAR, K.C.S.I., V.D., LL.D., Hon. M.D. Zür.

VICE-CHANCELLOR AND PRINCIPAL—WILLIAM HAMILTON FYFE, M.A. Ox., LL.D., F.R.S. Can.

RECTOR (1936–39)—Admiral Sir EDWARD EVANS, K.C.B., D.S.O., C.G., LL.D.

SECRETARY TO THE UNIVERSITY—H. J. BUTCHART, D.S.O., B.L.

LIBRARIAN, CLERK, AND REGISTRAR OF GENERAL COUNCIL—W. D. SIMPSON, M.A., D.Litt.

Telephone : Secretary's Office—Aberdeen 4850.

TEACHING STAFF

Accounting & Business Methods

Reid, J., M.A., C.A. Pt.-time Lectr.
Grant, John, M.A., C.A. (Agric. Book-keeping) Pt.-time Asst.

Agriculture, v. *infra*

Anatomy

Lockhart, R. D., M.D. Birm., Ch.M. Reg. Prof.
Mitchell, G. A. G., Ch.M. Lectr.
Crosby, Elizabeth H., M.S., Ph.D. Chic. Lectr.
Mitchell, P. C., M.B., Ch.B. Asst.
Hamilton, G. F., B.Sc., M.B., Ch.B. Asst.
Connon, M., M.D., D.P.H. Pt.-time Asst.
Dawson, D. J., B.Sc., M.B., Ch.B. Pt.-time Asst.

Anthropology

Piddington, R. O., M.A. Syd., Ph.D. Lond. Lectr.

Art, v. Fine Art

Astronomy and Meteorology

Roberts, Owen F. T., M.C., M.A. Camb. Lectr.

Banking

Cowie, R. H. Pt.-time Lectr.

Bio-Chemistry

Beard, E., B.Sc. Edin. Lectr.

Biology, v. Nat. Hist.

Botany

Matthews, J. R., M.A. Edin., F.L.S. Reg. Prof.
Downie, Dorothy G., B.Sc., B.Sc. (For.) Edin., Ph.D. Chic. Lectr.
Bond, T. E. T., B.Sc.(Agr.), M.Sc. Reading Asst.
Hare, C. L., M.Sc. Lond. Asst.

Celtic and Comp. Philology

MacDonald, John, M.A. Reader.

Chemistry, v. also Agric. *infra*

Findlay, Alexr., Ph.D. Leip., M.A., D.Sc. Prof.
Reade, T. H., M.A. Camb., M.Sc. Birm. Lectr.
Humphries, J. E., B.A. Lond. and Camb., M.Sc. Wales, Ph.D. Lond., D.Sc. Lectr.
Strathdee, R. B., Ph.D. Camb., M.A., B.Sc. Lectr.

Clow, A., M.A., B.Sc., Ph.D. Asst.
Watson, M.B., B.Sc., Ph.D. Asst.

Chemistry, Clinical
Lyall, Alex., M.A., M.D., M.R.C.P. Lectr.

Classics: Greek
Cameron, A., M.A. Glas., B.A. Ox. Reg. Prof.
Turner, E. G., M.A. Ox. Lectr.

Classics: Latin
Noble, P. S., M.A. Camb. and Aberd. (Humanity) Reg. Prof.
Turner, E. G., M.A. Ox. Lectr.
Raven, E. J. P., B.A. Camb. Asst.
Addison, C. J. S., B.A. Camb., M.A. Edin. Asst.
Weir, R., M.A. Pt.-time Asst.

Divinity, v. Theol.

Economics, v. Pol. Econ.

Education
Walker, Norman T., M.A., Ed.B., Ph.D. Glas. Lectr.
Smith, Vincent, M.A., B.Ed. Edin. Asst.

Embryology
Purser, G. L., M.A. Camb. Lectr.

Engineering [Jackson Prof.
Blackadder, W., D.Sc. Edin.
Orkney, J. C., B.Sc. (Eng.) Glas. (Elec. E.) Pt.-time Lectr.
Edmond, A. D., B.Sc. (Eng.) Lond. (Mech. E.) Pt.-time Lectr.
Grassie, J. C., B.Sc. (Eng.) Glas. (Forest E.) Lectr.

Pt.-time Assistants
Stewart, F. R., B.Sc. (Eng.) Glas. (Agric. E.).
Cruickshank, A. (Agric. E.).
Chisholm, J. A. (Agric. E.).

English
Bickersteth, G. L., M.A. Ox. Reg. (Chalmers) Prof.
Taylor, W. D., B.A. Ox., M.A. Glas. (E. Lit.) Lectr.
Walker, R. S., M.A. Aberd. and Camb. Lectr.
Jolly, R. A., M.A. Pt.-time Asst.

Fine Art
Pt.-time Lecturers
Rollo, R. Leslie, F.R.I.B.A. (Principles and Hist. of Archit.).
Townend, H., M.A. (Painting).
Swainson, W., F.R.C.O., A.R.C.M. (Music).
Laird, Prof. J. (Theory of Art).
Cameron, Prof. A. (Sculpture).

Fisheries, Scientific Study of
Clark, R. S., M.A., D.Sc. Pt.-time Lectr.

Forestry, v. also Engin.
Steven, H. M., M.A. Ox., B.Sc., Ph.D. Edin. Prof.
Laing, E. V., M.A., B.Sc. (For.), D.Sc. Lectr.
McNeill, W. M., M.A. Ox., M.S. Yale Lectr.
Aitkins, A. E., B.Sc. (For.) Edin. Asst.
Stewart, I. J., B.Sc. (For.) Asst.

French
Roe, F. C., M.A. Birm., L.ès L. Lyon, D. de l'U. Paris, O. A. Prof.
Woledge, B., M.A. Leeds, D. de l'U. Paris (to 30.9.39) Lectr.
Lough, J., B.A. Camb. Asst.
Chevaliér, P. P. G., L. ès L. Bordeaux Pt.-time Asst.
Lentz, E. E. Pt.-time Asst.

Geography
McFarlane, J., M.A Edin., Camb., M.Com. Manc. Reader.
Bremner, A., M.A., D.Sc. Edin. Pt.-time Asst.

Geology
Phemister, T. C., D Sc. Glas., Ph.D. Camb. Kilgour Prof.
Westoll, T. S., B.Sc., Ph.D. Durh. Lectr.
Dixon, C. G., B.Sc. Glas. Asst.

German

Yates, D., M.A. Birm., D.Phil. Bresl. Reader.
Witte, W., Dr. rer Pol. Breslau, Ph.D. Lectr.
Brooke, K., B.A. Birm. Asst.

Hebrew and Semitic Langs.

Kennedy, Rev. A. C., M.A., B.D. Edin. Prof.

History, v. also Law, Theol.

Black, J. B., M.A. Glas. and Ox. Burnett-Fletcher Prof.
Henderson, J. M., M.A. Edin. (Brit. Hist.) Lectr.
Taylor, Louise B., M.A. Asst.

Law, v. *infra*

Logic

Ferguson, A. S., M.A. St. And. and Ox. Reg. Prof.
Davies, H. W., B.A. Ox. Asst.

Mathematics

Wright, E. M., B.A. Lond., M.A., D.Phil. Ox. Prof.
Goodwillie, J., M.A. Camb. and Edin., B.Sc. Edin. Lectr.
Macintyre, A. J., B.A., Ph.D. Camb. Lectr.
Potter, H. S. A., M.A., D.Phil. Ox. Asst.

Medicine, v. *infra*

Meteorology, v. Astron.

Natural History

Hogben, L., M.A. Camb., D.Sc. Lond., F.R.S. Reg. Prof.
Neill, R. M., M.C., M.A. Glas. (Zool.) Lectr.
Sang, J. H., B.Sc. (Zool.) Asst.
Waring, H., M.Sc. Liv. Asst.
Gordon, C., M.Sc. Cape Town, Ph.D. Lond. Asst.
Landgrebe, F., B.Sc. Lond. Private Research Asst.
Wingfield, C. A., B.Sc. Lond. Private Research Asst.

Philology, Compar., v. Celtic

Philosophy, Moral

Laird, John, M.A. Edin. and Camb., LL.D. Edin., F.B.A. Reg. Prof.
Davies, H. W., B.A. Ox. Asst.

Philosophy, Natural [Prof.

Carroll, J. A., M.A., Ph.D. Camb.
Geddes, A. E. M., O.B.E., M.A., D.Sc. Lectr.
Griffith, H. D., B.A. Camb. Lectr.
Baxter, A., M.Sc., Ph.D. Manc. Asst.
Westcott, C. H., B.A., Ph.D. Camb., B.Sc. Lond. Asst.
Rowland, E. N., B.A. Camb. Asst.

Physiology

Cruickshank, E. W. H., D.Sc. Lond., Ph.D. Camb., M.D., M.R.C.P. Reg. Prof.
Burns, W., B.Sc., M.B., Ch.B. (Exper. P.) Lectr.
Irving, J. T., M.A., M.D., Ph.D. Camb. (Nutritnl. P.) Lectr.
Orr, Sir J. B., D.S.O., M.C., M.A., D.Sc., M.D. Glas., LL.D. St. And., F.R.S. (P. of Nutrition) Research Lectr.
Kosterlitz, H. W., M.D. Berlin, Ph.D. Asst.
Munro, A. F., B.Sc Asst.

Political Economy

Fraser, L. M., M.A. Ox., Ph.D. Brookings Inst. Jaffrey Prof.
Macdonald, Annie, M.A. (With status of Lectr.) Asst.
Hamilton, H., M.A., D.Litt. Glas. (Econ. Hist.) Lectr.

Psychology, Comparative

Knight, A. R., M.A. Syd. and Camb. Anderson Lectr.
Knight, Mrs. Margaret, B.A. Camb. Asst.

Spanish

Davidson, C., M.A. Lectr.

Statistics

Tocher, J. F., D.Sc., LL.D. Pt.-time Croll Lectr.

Theology

Robertson, J. A., M.A., D.D. Prof.
Henderson, G. D., D.D., M.A., D.Litt. Glas. (Church Hist.) Prof.
Graham, J. M., M.A. Glas. (Systematic T.) Prof.
Macleod, J., M.A. Glas., D.D. Halifax (Christian Dogmatics) Prof.
Findlay, A. F., M.A., D.D. (Christian Ethics and Practical T.) Prof.

Zoology. v. For., Nat. Hist.

Agriculture

(v. also Acctg., Engin. and *infra* North of Scotland Coll. of Agr.)

Hendrick, J., B.Sc. Lond. Strathcona-Fordyce Prof.
Donald, G., B.Sc. (Agr.) Interim Pt.-time Lectr.
Findlay, W. M., N.D.A. (Seed Testing) Pt.-time Asst.
Bain, R., B.Sc. (Agr.) Glas. Pt.-time Asst.

Agric. Chemistry

Hill, Alfred, B.Sc., B.Sc. (Agr.) Pt.-time Asst.
Boyns, B. M., B.Sc. (Agr.) Durh., Ph.D. Pt.-time Asst.

Agricultural Law

Wilson, N. J., M.A., LL.B. Pt.-time Asst.

Soil Science

Ogg, W. G., Ph.D. Camb., M.A., B.Sc., B.Sc. (Agr.) Research Lectr.

Veterinary Hygiene and Agr. Bacteriology

Grant, J. C., M.R.C.V.S. Pt.-time Lectr.

Law

Taylor, T. M., M.A., LL.B. Prof.
Shewan, F. G. D., M.A., LL.B. Pt.-time Asst.
MacRitchie, F., M.A., LL.B. Pt.-time Tutor.

Constit. L. and Hist.

Cruickshank, J. S. R., B.A. Camb., LL.B. Edin. Pt.-time Lectr.

Conveyancing

Morrison, A. C., O.B.E., M.A. St. And., LL.B. Glas. McLennan Prof.

Internat. L., Public and Private

Mackinnon, L., Jr., D.S.O., M.A., LL.B. Pt.-time Lectr.

Mercantile Law

Esslemont, W. D., M.A., B.L. Pt.-time Lectr.

Procedure and Evidence

Edwards, J. H., M.A., LL.B. Pt.-time Clark Lectr.

Roman Law [Pt.-time Lectr.

Masson, R. P., M.A., LL.B.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology

Cruickshank, J., M.D. Glas. Prof.
Howie, J. W., M.D. Lectr.
Stephen, G. M., M.A., M.B., Ch.B. Asst.
Smith, John, D.Sc., M.D., D.P.H., M.R.C.P. Pt.-time Lectr.

Children, Diseases of

Craig, J., M.B., Ch.B., M.R.C.P. Ed. Pt.-time Lectr.

Children, Surgical Dis. of, and Orthopaedics

Mitchell, A., M.A., Ch.M. Pt.-time Lectr.

Forensic Med.

Richards, R., M.A., M.D., F.R.C.S.E. Pt.-time Lectr.

Williamson, G., M.A., M.B., C.M., F.R.C.P.E. (Med. Ethics) Pt.-time Lectr.

Gibb, M. G., M.B., Ch.B. Pt.-time Asst.

Materia Medica

Campbell, D., M.C., M.A., B.Sc., M.D. Glas., F.R.F.P.S. Glas. Reg. Prof.

Morgan, T. N., M.D. Lectr.

Medicine

Aitken, R. S , M.D. N.Z., D.Phil. Ox., F.R.C.P. Reg. Prof.

Fullerton, H. W., M.A., M.D. Lectr.

Mackenzie, J. R., M.D. (Anæs.) Pt.-time Lectr.

Anderson, A. G., M.A., M.D., F.R.C.P. (Clin.) Pt.-time Lectr.

Hendry, A. W., O.B.E., M.D., M.R.C.P. Pt.-time Lectr.

Nicol, B. M., M.B., Ch.B. Pt.-time Asst.

Midwifery

Baird, D., B.Sc., M.D., D.P.H. Glas., F.C.O.G. Reg. Prof.

Davidson, G. S., M.A., M.B., Ch.B. M.C.O G. (Clin.) Pt.-time Lectr.

Milne, G. P., M.B., Ch.B., D.C.O.G. Lond. Pt.-time Asst.

McLaren, H. C., M.B., Ch.B. Glas. Pt.-time Asst.

Ophthalmology

Souter, W. C., M.D., D.O. Ox. Pt.-time Lectr.

Galloway, A. R., O.B.E., M.A., M.B., C.M. Pt.-time Lectr.

Smith, H. E., M.A., M.B., Ch.B. Pt.-time Lectr.

Pathology

Young, J. S., M.C., M.A., B.Sc., M.D. Glas. Reg. (Wilson) Prof.

Davidson, W. M., M.B., Ch.B. (Morbid Anat.) Lectr.

Morgan, A. D., M.A., M.B., Ch.B. Asst.

Evans, W. G., M.B., B.S. Lond., M.R.C.S., L.R.C.P. (Malignant Dis. and Radium Officer) Georgina McRobert Lectr.

Psycho-Pathology

MacCalman, D. R., M.D. Glas. Lectr.

Public Health and Infectious Diseases

Berry, D. W., M.C., M D., D.P.H. Lectr.

Pt.-time Lecturers

Rae, H. J., M.C., M.A., M.B., Ch.B., D.P.H.

Merewether, Edward R. A., M.D. Durh. (Factory Hyg)

Otty, J. H., M.A., M.B., Ch.B., F.R.C.S.E., D.L.O. (Diseases of the Ear, Nose, and Throat).

Brown, J., M.B., Ch.B., D.P.H. (Vaccination).

Brown, R. D., M.D. Edin., F.R.C.P.E. (Mental Diseases).

Anderson, T. E., M.D. (Diseases of the Skin).

Bowie, F. J. T., M.B., Ch.B., D.P.H. (Ven. Dis.)

Radiology and Electro-Therapeutics

Blewett, J. E., M.D. Melb., D.M.R. Lond. Pt.-time Lectr.

Surgery

Learmonth, J. R., Ch.M. Glas., F.R.C.S.E. (to 30 9.39) Reg. Prof.

Pt.-time Lecturers

Smith, F. K., M.A., M.B., Ch.B. (Clin.).

Anderson, W., O.B.E., M.B., Ch.B., F.R.C.S.

Pt.-time Assistants

Logie, N. J., M.B., Ch.B., F.R.C.S.

Rennie, A. M., M.B., Ch.B., F.R.C.S.

Tropical Medicine

Williamson, G. A., M.A., M.D., D.P.H., D.T.M. Liv. Pt.-time Lectr.

Tuberculosis

Banks, G. S., M.B., Ch.B., D.P.H. Edin. Pt.-time Lectr.

Gifford Lecture in Nat. Theol.

1938–40, Prof. A. D. Nock, M.A., LL.D. (Harvard Univ.).

Physical Training

Director: Capt. A. W. Brocks, M.C., M.B.E.; Asst.: Mrs. E. M. Campbell.

ASSOCIATED COLLEGES

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. III. p. 925. Director of Studies and Research—J. Hendrick, B.Sc., F.I.C., Strathcona-Fordyce Prof. of Agric. and Lectr. in Agr. Chem. Lectrs.: *Agr. Bot.*, D. Clouston, M.A., B.Sc. (Agr.), D.Sc.; *Agr. Zool.*, D. Robertson, B.Sc. (Agr.), Ph.D., D.Sc., N.D.A.; *Agric., Principles of*, G. Donald, B.Sc. (Agr.) (Interim); *Bee-keeping*, A. Deans, M.A., B.Sc., Ph.D.; *Hortic.*, G. E. Greenhowe; *Trop. Hyg.*, G. A. Williamson, M.A., M.D., D.P.H., D.T.M.; *Vet. Hyg.*, J. C. Grant, M.R.C.V.S.; 2 Advisory Officers (Entomol. and Grassland Management), 1 Agr. Economist, 1 Asst. Lectr., 14 Assts., 1 Director of County Work, 15 County Organizers, 1 Asst. Organizer, 15 County Instructresses.

ROBERT GORDON'S TECHNICAL COLLEGE. Under the Aberdeen Educational Endowments Scheme, 1934, the Governors, in continuation and development of the College, provide, maintain, furnish, equip, administer and conduct schools of Engineering, Mathematics and Physics, Chemistry, Pharmacy, Navigation, Art (including Drawing, Painting, Design, Sculpture, Architecture, Building and Surveying), Domestic Science, Commerce and such other subjects connected with education in science, art and technology as they think fit. The School of Art is known as Gray's School of Art. The Court of the Univ. and the Governors of the Coll. co-operate in the provision of day courses leading to the degree of B.Sc. (Eng.) of the Univ. and to the Diploma of Associateship of the Coll. in Eng.—Civ., Mech., and Elect. The courses in Mech. and Elect. Engin. are recognized under the schemes for the award of National Diplomas. Classes in Agric. Engin. are provided in connexion with the degree of B.Sc. (Agr.) of the Univ. and the Diploma of the N. of Scotland Coll. of Agric. Courses for Marine Engineers are provided in preparation for the examns. of the several grades of Certifs. of competency issued by the Bd. of Trade, including that for Extra-First Class and also for Engineer Surveyors under the Bd. of Trade and Lloyd's. Evening courses in the higher branches of Civ., Mech., Elect., Automobile Engin., Naval Archit., Maths., Physics, and in Papermaking.

Fees. All fees for degree courses payable at the Univ. (v. *infra*). For Associateship, 1st yr. £21, 2nd and 3rd yrs., each £25 (plus matricn. fee, 2nd and 3rd yrs., 2 gs.). For Nat. Diploma, 1st yr. £21, 2nd £25, 3rd £20.

Staff.—Art, Hd. of School, D. M. Sutherland, M.C., R.S.A.; 5 Principal Teachers, 7 Asst. Teachers. *Chem.*, Hd. of School, W. Maitland, D.Sc.; Lectrs.: R. Craven, B.Sc., A.R.C.S., F.I.C., J. L. Edgar, B.Sc., A.R.C.S., A.I.C., J. E. Ritchie, B.Sc., F.I.C. *Domestic Sci.*, Hd. of School, Annette G. Kelly; 4 principal Teachers, 8 others. *Engin.*, Hd. of School, Prof. W. Blackadder, D.Sc. *Engin., Civil*, The Univ. Prof. of Engin. and staff and F. R. Stewart, B.Sc. (Eng.). *Engin., Electrical*, Hd. of Dept., J. C. Orkney, B.Sc. (Eng.),

Lectrs.: G. C. Colmar, B.Sc. (Eng.), P. D. Burr, B.Sc. (Eng.); 1 Lab. Asst. *Engin., Mechanical*, Hd. of Dept., A. D. Edmond, B.Sc. (Eng.), A.R.T.C., M.I.Mech.E., M.I.Mar.E.; Lectrs.: J. A. Chisholm, A.H.W.C. Edin., A. A. Butler, B.Sc., W. A. Linning, B.Sc. (Eng.), W. G. Strachan, A.I.A.E.; 2 Lab. Assts. *Marine Engin.*, Lectrs.: W. P. Hunter, M.I.Mar.E., C. Hay. *Maths. and Physics*, Hd. of Dept., J. D. Stewart, M.A.; Lectrs.: J. Morgan, M.A., J. R. Coull, M.A.; 1 Physics Lab. Asst. *Navigation and Seamanship*, Hd. of School, Leslie Watt, C. R. Cameron, R. H. Wrigglesworth; Lectr. in Ambulance Work, J. A. Mearns, M.B., C.M. *Paper-making*, Lectr.: L. L. McKay. *Paper-testing*, Lectr.: Helen M. M'Kenzie, M.A., B.Sc. *Pharmacy*, Hd. of School, J. E. Bowen, B.Sc., Ph.C., A.I.C.; Lectrs.: H. Bradley, Ph.C., Euphemia C. Barnett, B.Sc. (Biol.), E. Thorpe, B.Pharm., Ph.C. (Pharmacognosy), D. O. Pinkerton, B.Sc.

GENERAL INFORMATION, v. also pp. 351 ff.

The "University and King's College of Aberdeen," founded under a Papal Bull in 1494, and the "Marischal College," founded in 1593 by George Keith, Earl Marischal, were reconstituted in 1860 as "The University of Aberdeen." Certain of the original buildings remain, notably the Chapel (A.D. 1500).

The LIBRARY, founded in 1500, has 250,000 vols. and 200 *incunabula*, some unique. It is especially rich in Celtic literature, and books bearing on the history, topography, and antiquities of the Scottish Highlands, and Classical Archæology. It also contains the McBean Jacobite collection, reputed to be the largest in the world outside the British Museum. Annual budget about £3500. MUSEUMS: Anthropological (illust. cat. 1s.), Surgical (2500 specimens and 600 instruments), etc. Besides the usual LABORATORIES there is the Rowett Institute of Research in *Animal Nutrition* near Bankhead, with depts. of Physiol., Bio-Chem., Bacteriol. and Pathol., and attached Animal Husbandry section for practical experiments in feeding, etc. (v. App. III. A. I. (d)). It is under the management of a joint committee of the Univ. and the N. of Scotland College of Agric. Hospitals available for clinics: Infirmary, 500 beds; Woodend Hospital, 300; Children's, 150; Fever, 300; Mental Hospital, 900; Maternity Hospital, 37; Ophthalmic Institution, 5.

FACULTIES. Arts, Science, Divinity, Law, Medicine. *Deans:* Profs. A. S. Ferguson, J. R. Matthews, A. Fyfe Findlay, T. M. Taylor, D. Campbell. Departments: Commerce, Education.

ADMISSION and ADVANCED STANDING, v. Appendix I.

DEGREES, ETC., v. pp. 352 ff. A Diploma is conferred in Public Health (D.P.H.).

FEES (v. *also* Carnegie Trust, p. 355). Matriculation, 2 gs. p.a. Inclusive fees for tuition: M.A. (Hons.), 60 gs.; M.A. (Ord.), 45 gs.; B.Com., 45 gs.; B.Sc. (Pure Science, Agriculture, Forestry, and Engineering), 90 gs.; B.Sc. (Hons.), 100 gs.; B.D., 40 gs.; LL.B., 40 gs. (28 gs. for M.A. of the Univ.); B.L., 30 gs.; M.A. and B.Sc. taken together, 112½ gs.; M.A. (Hons.) and B.Sc. taken together, 127½ gs.; M.A. and B.Com., 75 gs.; B.Sc. and B.Com., 112½ gs.; M.B., Ch.B., 127 gs.; B.Sc., M.B., and Ch.B., 169 gs.; M.A., B.Sc., M.B., and Ch.B., 203 gs. The total cost of the whole medical curriculum, including hospital fees, classes, matricn. and degree fees, is usually about £250. Degree: M.A., 7½ gs.; B.Sc., 9 gs.; B.D., 7½ gs.; B.L., 7½ gs.; LL.B., 9 gs.; M.B., Ch.B., 33 gs.; Doctorates from 10 to 20 gs. The class and examn. fees for the D.P.H. are £47: 5s.

SCHOLARSHIPS, ETC., for graduates (v. also pp. 354-55), about 25; aggregate annual value about £1600. *Travelling Scholarships:* Anderson, for medical graduates, about £200 p.a. for 2 yrs.; Kilgour, £200-£250 for graduates in Natural Science or Natural History; Robbie, £70-£85 p.a. in Maths., Nat. Philos., and Chem.; John Stephen, £90 p.a. in Econ. for 2 yrs.; Yuill, £150 for 1 yr., renewable in Indust. and Agr. Chem. *Travelling Fellowship:* Wilson, for archæological research in the Near East, £300 p.a. for 2 yrs. Particulars obtainable from Sec. to Wilson Trustees, A. Martineau, 1 Golden Square, Aberdeen. George Thompson, in Med., for 2 yrs. (1 yr. abroad).

RESIDENCE. List of lodgings kept by Students' Representative Council.

APPOINTMENTS COMMITTEE. There is a Committee which advises students as to preparation for entrance to various Government Services and other appointments. All communications to be addressed to *The Secretary*.

PHYSICAL WELFARE OF STUDENTS. There is a Dir. of Phys. Training, with a woman asst. for women students.

PUBLICATIONS. *Calendar* (Sept.), 4s.; *Univ. Review*, 7s. 6d. p.a. (3 issues); *Students' Handbook and Diary* (Nov.), 1s.; *Alma Mater* (organ of S.R.C.).

THE YEAR 1937–38

BENEFACTIONS. Carnegie Trust, Edinburgh, £30,152 : 17 : 3 (books for Library, £1000; feu-duty, Powis Lodge, Old Aberdeen, £156 : 8 : 10; salaries of Carnegie Teaching Fellows, £1168 : 15s.; towards cost of Students' New Union, £4052 : 16 : 10; towards cost of new Medical Buildings, Foresterhill, £23,774 : 16 : 7). Crombie Ross Fund, Aberdeen, foundation of Lectureship in Psychopathology, £10,000 : 11 : 6; Imperial Chemical Industries, Ltd., London, first annual instalment of gift towards rebuilding of Chemistry Dept., £714 : 5 : 9; Rockefeller Foundation, Paris, grant to provide a Scientific Assistant in Natural History Dept., £300; the 1880–84 Arts Class, residue of gift to Library for Library purposes, £280; J. A. Ross, Aberdeen, donation for Special Buildings Fund, £143; the Executors of George B. Currie, M.A., M.D., Aberdeen, repayment of bursary held by Dr. Currie during 1876–1880, £100; Lt.-Col. A. D. Buchanan Smith, Midlothian, donation towards cost of replacing window in King's College Chapel commemorating the services of the Very Rev. Sir George Adam Smith, £100; Lord Glanely, London, towards fund for Rheumatic Research, £76 : 19 : 3; Sir Thomas Jaffrey, Bt., Milltimber, donation for Special Buildings Fund, £64 : 6s.; Catherine McCaig's Trust, Glasgow, donation towards publication of Gaelic poems of Ewen Maclachlan, £60; Kingswells Trust, Aberdeen, grant for general purposes, £50; George C. Rose, British Columbia, prize for Essay on Journalism, £20; Arthur William Garden, M.A., W.S., London, further bequest for Medical or Surgical Research, £5.

NEW BUILDINGS. The New Medical Buildings at Foresterhill have been completed and equipped. They were formally opened by Lord Dawson of Penn on 28th September 1938. The reconstruction of the buildings acquired for the Students' New Union is nearing completion, and it is expected that the buildings will be opened during the Spring Term, 1939.

GENERAL LECTURES. Prof. D. Baird, "Recent Advances in our knowledge of Reproduction"; H. G. Wood, "Vision and Obedience"; Prof. H. Watt, "The Sense of the Infinite in Religion"; J. Rothenstein, "English Painting from the 10th century to the present day"; Prof. Karl Barth (Gifford Lecturer), "The Knowledge of God and the Service of God according to the teach-

ing of the Reformation—recalling the Scottish Confession of 1560 " ; William Swainson, " The Symphonies of Sibelius " ; Prof. L. L. Shücking, " Annette von Droste-Hulshoff " ; Prof. C. Heymans, " Some aspects of Blood Pressure Regulation and Experimental Arterial Hypertension " and " The Role of the Aortic and Carotid Sinus Presso—and Chemo-receptors in the reflex control of respiration."

POSTGRADUATE SCHOOL OF MEDICINE. Under the auspices of the Department of Health for Scotland, two courses of Postgraduate Study were conducted during the academical year. Twenty-two medical practitioners attended each course.

ADDITIONS TO STAFF. Lecturers: Anthropol. (1); Bacteriol. (1); Clinical Midwifery (part-time) (1); Geol. (1); German (1); Ophthalmol. (part-time) (1); Psychopathol. (1). Assistants: Forestry (1); Midwifery (part-time) (1); Surgery (part-time) (1); Zoology (1).

RETIREMENTS. Prof. Adolphus A. Jack (English); Prof. Andrew C. Baird (Biblical Criticism); Prof. Alexander Low (Anatomy).

RESIGNATIONS. Prof. L. S. P. Davidson (Med.), on appt. to Chair of Medicine, Edinburgh Univ.; Charles Strachan (Nat. Phil.); William Brown (Diseases of Children).

HONORARY DEGREES. D.D.—John H. S. Burleigh, James B. Gardiner, G. Stanley Russell. *LL.D.*—Edwin J. Butler, David S. Cairns, Gunnar Dahlberg, Jacob Epstein, Adolphus A. Jack, Alexander Souter, Sir Ronald Storrs, Arthur D. Waley, Theodore Watt.

STUDENTS. 1184 (830 men, 354 women).

DEGREES. *Divinity*: B.D., 7. *Arts*: Ph.D., 1; M.A. (Ord.), 78; M.A. (Hons.), 37; Ed.B., 3. *Law*: LL.B., 13; B.L., 4. *Science*: D.Sc., 2; Ph.D., 3; B.Sc. (Ord.), 7; B.Sc. (Hons.), 11; B.Sc. (Agr.), 7; B.Sc. (For.), 4; B.Sc. (Eng.) (Ord.), 11; B.Sc. (Eng.) (Hons.), 2; B.Com., 1. *Medicine*: M.D. (Ord.), 1; M.D. (Hons.), 3; M.B., Ch.B. (Ord.), 93; M.B., Ch.B. (Hons.), 2.

UNIVERSITY OF EDINBURGH

Founded 1583

CHANCELLOR—RT. HON. BARON TWEEDSMUIR OF ELSFIELD, G.C.M.G., C.H., M.A., D.C.L., LL.D.

VICE-CHANCELLOR AND PRINCIPAL—Sir THOMAS H. HOLLAND, K.C.S.I., K.C.I.E., LL.D. Manc., Glas., Edin., Aberd. and St. And., D.Sc. (Eng.) Witwatersrand, F.R.S., D.L.

RECTOR—Sir HERBERT J. C. GRIERSON, M.A. Aberd. and Ox., Litt.D. Camb., LL.D. St. And., Aberd. and Edin., F.B.A.

SECRETARY TO THE UNIVERSITY—W. A. FLEMING, M.A., LL.B., J.P., Advocate.

SECRETARY TO THE GENERAL COUNCIL—T. F. HARLEY.

LIBRARIAN—F. C. NICHOLSON, M.A.

ACCOUNTANT—G. D. STEWART, C.A.

Telephone: Edinburgh 41001.

TEACHING STAFF

Accounting and Business Method

Annan, W., M.A., C.A. Prof.
Bogie, D. J., B.Com., C.A. Lectr.
Murray, A. G., C.A. Lectr.
Whitton, J., M.A., B.Com., C.A. Lectr.
Keddie, C., C.A. Asst. Lectr.

Actuarial Science

Aitken, A. C., M.A., D.Sc., F.R.S. Reader.
Dow, J. B., M.A., F.F.A. Lectr.
Donald, D. W. A., F.F.A. Lectr.

Agriculture, v. *infra*

Anatomy

Brash, J. C., M.C., M.D. Birm., M.A., M.B., Ch.B., F.R.C.S.E. Prof.
Jamieson, E. B., M.D. Lectr.
Jardine, F. E., M.B., Ch.B., F.R.C.S.E. (Applied A.) Lectr.
Walmsley, R., M.B., Ch.B. Lectr.
Craig, R. C., M.B., F.R.C.S.E. (Applied A.) Asst.
Stirling, R. J., M.B., F.R.C.S.E. (Applied A.) Asst.
Wood, W. A., M.D., F.R.C.S.E. Asst.
Newton, R. H., B.A. Camb., M.D., F.R.C.P.E. Asst.
Borthwick, J. Tech. Asst.

Anatomy, Comparative

Grahame, T., M.R.C.V.S. Lectr.

Anthropology

Childe, Prof. V. G. Munro Lectr.

Arabic

Bell, Richard, M.A., D.D. Reader.

Archæology, Classical

Cook, J. B., B.A. Camb. Lectr.

Archæology, Prehistoric

Childe, V. G., B.A. Syd., B.Litt. Ox. Abercromby Prof.

Art (Fine Art)

Rice, D. Talbot, M.A., B.Sc. Watson Gordon Prof.

Astronomy

Greaves, W. M. H., M.A. Camb., F.R.A.S. Reg. Prof.

Banking

Turnbull, M. McK., M.A. Bruce Lectr.

Biology, v. Nat. Hist.

Botany, v. also Forestry

Smith, Sir Wm. Wright, D. ès Sc. Toulouse, M.A., F.L.S. Reg. Prof.
Wilson, M., D.Sc. (Mycol. and Bacteriol.) Reader.
Smith, J. L. S., M.A., B.Sc. (Forest B.) Lectr.
Anthony, J., M.C., M.A., B.Sc. (Botany) Lectr.
Nelson, A., B.Sc., Ph.D. (Plant Physiol.) Lectr.
Boughey, A. S., B.Sc. Lond. Asst.

Celtic Languages, etc.

Watson, J. C., M.A. Prof.
Matheson, A., M.A. Asst.

Chemistry

Kendall, James P., M.A., D.Sc., F.R.S. Prof.
Rule, H. G., Ph.D., D.Sc. Lectr.
Butler, J. A. V., D.Sc. Lectr.
Bolam, T. R., D.Sc. Lectr.
Ludlam, E. B., M.A., D.Sc. Lectr.
Miller, Miss C. C., B.Sc., Ph.D. Lectr.
Campbell, N., B.Sc., Ph.D. Lectr.
Percival, E. G. V., B.Sc., Ph.D. Lectr.

Assistants

Anderson, W., B.Sc.
Beevers, C. A., M.Sc.
Bolam, Mrs. Mary R., B.Sc., Ph.D.
Hope, J., B.Sc.
Nelson, W. E., B.Sc.
Ritchie, M., D.Sc.
Sim, W. S., B.Sc.
17 other Assts.

Chemistry in relation to Medicine

Marrian, G. F., D.Sc. Lond., F.R.S.C. Prof.

Lecturers

Stewart, C. P., M.Sc. Durh., Ph.D.
Stedman, E., B.Sc., Ph.D., F.R.S.
Stedman, Ellen (Mrs.), M.Sc.
Van Rooyen, E. C., M.D.

Assistants

Brown, Ena, Ph.D.
Dodds, G. B., B.Sc.
Easson, L. H., B.Sc., Ph.D.

Chemistry, Technical

Bain, David, D.Sc. Lectr.

Classics: Greek [Prof.

Calder, W. M., B.A. Ox., M.A. Manc., LL.D. Aberd., F.B.A.
Forbes, P. B. R., M.A. Camb. Lectr.
Coxon, A. H., M.A. Lectr.
Bruce, F. F., M.A. Aberd., B.A. Camb. Asst.

Classics: Latin [Prof.

Richmond, O. L., M.A. Camb.
Campbell, D. J., M.A. Lectr.
Potter, K. R., M.A. Lectr.
Smith, W. K., B.A. Lectr.
Nicolson, Miss C. A., M.A. Asst.
Cook, J. M., B.A. Camb. Asst.

Commerce, and Organization of Industry, v. also Acc., Banking

Oliver, W., B.Sc. Prof.
Sutherland, D. G., B.Sc. Asst.
Cadigan, J. J., B.Com., C.A. Asst.

Commercial and Polit. Econ. and Merc. Law, v. also Law

Gray, Alexander, C.B.E., M.A. Prof.

Lecturers
Birnie, A., M.A. (Econ. Hist.).
Rankin, Mary T., M.A., D.Phil.
Joynt, Thomas A., M.A.
Henderson, A., B.A. Camb.
Aitken, A. C., M.A., D.Sc., F.R.S. (Statistics and Math. Econ.).
Pattison, Jean S., M.A. Asst.

Cytology, v. Nat. Hist.

Divinity
Baillie, Rev. J., M.A., D.Litt., D.D. Prof.
Curtis, Rev. Principal W. A., M.A., D.Litt., D.D. (Biblical Criticism and Bib. Antiq.) Prof.
Burleigh, Rev. J. H. S., B.Litt. Ox., D.D. Aberd., M.A. (Eccl. Hist.) Prof.
Manson, Rev. W., M.A., D.D. (N.T. Lang. and Lit.) Prof.
Thomson, Rev. G. T., B.A. Ox., M.A. Edin., D.D. Aberd. and Edin. (Christian Dogmatics) Prof.
Watt, Rev. H., B.D. (Church Hist.) Prof.
Rankin, Rev. O. S., M.A., B.D., D.Litt. (O.T. Lang. and Lit.) Prof.
Perry, Rev. Dean W., D.D. Lectr.
Lamont, Very Rev. Prof. D., M.A., D.D. Reader.
Cocks, Rev. Principal H. F. L., B D. Lectr.
Thornton, C. T., M.A., B.D. Lectr.
Mathers, Rev. J., O.B.E., B.D. Asst.
Cameron, Rev. D., D.D. Asst.

Economics, v. Comm. and Pol. Econ.

Economics, Social
Milnes, Nora, B.Sc. Lectr.

Education
Thomson, Godfrey H., D.Sc. Durh., Ph.D. Stras. (Dir. of Studies, Provincial Training College) Prof.
Milne, A., D.Sc. Lectr.
Mowat, G., M.A., B.Ed. Lectr.
Bain, Margaret J., M.A., Ph.D. Lectr.
Lothian, A. J. D., M.A. Lectr.

Assistants
Bickersteth, Marguerite E., Ph.D.
Emmett, W. G., M.A.
Thomson, Edith J. M., M.A., B.Ed.
Mowat, A. S., M.A.

Engineering
Beare, Sir Thos. Hudson, B.A., B.Sc. Adel., LL.D. Reg. Prof.
Todd, J. B., B.Sc., Ph.D. (Surv. & Hydraulics) Reader.

Lecturers
Cowan, Lt.-Col. S. Hunter, D.S.O. (Forest Engin.).
Stewart, David S., B.Sc., Ph.D.
Patterson, C.
Davidson, M., Ph.D. (Heat Engines).
Carswell, J. I., B.Sc., Ph.D.
Stevenson, E., B.Sc.

Dudgeon, W., B.Sc. Asst.
Herbstritt, K., B.Sc. Asst.

English Lit. and Rhetoric
Wilson, J. Dover, C.H., M.A., D.Litt., F.B.A. Reg. Prof.
Kitchin, G., M.A., D.Litt. Lectr.
Schram, O. K., M.A., Ph.D. (E. Lang.) Lectr.
Clark, A. M., M.A., D.Phil. Lectr.
Wood, H. H., M.A. Lectr.
Murrie, Mrs. W. S., M.A., Ph.D. Asst.
Drever, Mrs. D. L., M.A. Asst.
Logan, R. M., M.A. Asst.
Macdonald, Angus, M.A. Asst.
3 Pt.-time Assts.

Entomology, v. *infra* Agric.

Forestry, v. *infra* Agric.

French and Romance Philol.
Orr, J., M.A., B.Litt. Ox., D.Litt. Manc., L. ès L. Paris Prof.

Burns, Mary, M.A., D. de l'U. Paris Lectr.
Poulet, G., D. en Phil. et L., D. en Droit Liége Lectr.
Gill, A., M.A. Lectr.
Alexander, I. W., M.A. Asst.
4 Assts.

Geography
Ogilvie, Alan G., O.B.E., M.A., B.Sc. Ox. Prof.
Linton, D. L., M.Sc. Lectr.
Geddes, A., D. ès L. Montp., Ph.D. Lectr.
Snodgrass, Catherine P., M.A., Ph.D. Asst.

Geology [Reg. Prof.
Jehu, T. J., M.A. Camb., M.D.
Campbell, R., M.A., D.Sc. (Petrology) Reader.
Finlay, T. M., M.A., D.Sc. (Palæont.) Lectr.
Craig, Robert, M.A., D.Sc. (Econ. Geol.) Lectr.
Cockburn, A., B.Sc., Ph.D. Asst.

German and Teutonic Philol.
Bruford, W. H., M.A. Camb. Prof.
Eggeling, H. F., M.A. Reader.
Barker, Marie L., Ph.D. Research Fellow and Lectr.
McIlvenna, Estelle G. C., M.A., Ph.D. Asst.
Reinhold, Henry, Ph.D. Asst.

Hebrew and Semitic Langs.
Porteous, Rev. N. W., M.A., B.D., D.Litt. Prof.
Cameron, Rev. D., D.D. Asst.

Histology, v. Physiol.

History, v. also Comm., Div.
Galbraith, V. H., C.G., M.A. Camb. Prof.
Balfour-Melville, E. W. M., M.A., D.Litt. Lectr.
Rothwell, H., B.A., Ph.D. Camb. (Medieval and Gen. European) Lectr.
Horn, D. B., M.A., D.Litt. Lectr.
Saunders, L. J., M.A. Lectr.

History, Ancient (Gk. & Roman)
Giles, A. F., M.A. Edin. and Ox. Reader.

History, Ancient, and Palæog.
Hannay, R. K., M.A. Glas. and Ox., LL.D. St. And. Prof.
Lemon, Miss E. B., M.A. Asst.

History (Constitn. of the British Empire, etc.)
Keith, Prof. A. B. Lectr.

History, Const., and Const. Law
Dykes, D. O., M.A., LL.B., K.C. Prof.
Walker, A. G., M.A., LL.B. Asst.

Italian
Purves, J., M.A. Reader.

Law, v. *infra*

Logic and Metaphysics, v. Philos.

Mathematics [Prof.
Whittaker, E. T., M.A. Camb., LL.D. St. And., Sc.D. Dub.
Gibb, D., M.A., B.Sc. Reader.
Aitken, A. C., M.A., D.Sc., F.R.S. Reader.
Ince, E. L., M.A., D.Sc. Lectr.
Bath, F., B.Sc. Brist., Ph.D. Camb. Lectr.
Edge, W. L., M.A., Sc.D. Camb. Lectr.
Etherington, J. M. H., B.A. Ox., Ph.D. Lectr.

Mathematics, Applied
Schlapp, R., Ph.D. Camb. Lectr.

Medicine and Surgery, v. *infra*

Mining
McMillan, W. H., B.Sc. Glas., M.I.Min.E., F.I.F. Hood Prof.

Music
Tovey, Sir D. F., B.A., D.Mus. Ox., Mus.M. Birm. Reid Prof.
Head, R., Mus.Doc. Lectr.
Grierson, Mary, Mus.Doc. Lectr.
Sampson, Margaret, Mus.Bac. Asst.

Natural History and Zoology
Ritchie, James, M.A., D.Sc. Aberd. Prof.
O'Donoghue, C. H., D.Sc. Reader.

Lecturers
Morgan, D. O., M.Sc., Ph.D. (Helminthology).
Friend, G. F., B.A.Ox., B.Sc. Brist. (Cytology and Exp. Zool.).
Gross, F., Ph.D. (Zool., Exp.).
Gresson, R. A. R., B.Sc., Ph.D. (Cytol.).

Palæontology, v. Geol.

Petrology, v. Geol.

Philology, v. French, Ger., Sansk.

Philosophy
Smith, N. Kemp, M.A., Ph.D., LL.D. St. And., D. Litt. Durh. Prof.
Jackson, K., M.A. S.A., D.Litt. St. And. (Ancient P.) Lectr.
Sinclair, W. A., M.A. Lectr.
Davie, G. E., M.A. Asst.
Lloyd, A. C., B.A. Ox. Asst.

Philosophy, Moral, v. also Psych.
Taylor, A. E., M.A. Ox., D.Litt. St. And., Manc., LL.D. Aberd., St. And. Prof.
..... Lectr.
Chapman, W. M. M., B.A. Ox. Asst.

Philosophy, Natural
Barkla, C. G., M.A. Camb., M.Sc. Manc., D.Sc. Liv., LL.D., F.R.S., Nobel Laureate Prof.
Born, Max, M.A. Ox., Ph.D. Gött. Tait Prof.
Carse, G. A., M.A., D.Sc. Reader.
Milne, J. R., D.Sc. Lectr.
Childs, C. B., Ph.D. Lectr.
Paton, J., M.A., B.Sc. Lectr.
Dymond, E. G., M.A. Camb. (Physics) Lectr.
Schlapp, R., Ph.D. Lectr.
Murison, C. A., Ph.D. Lond., M.A. Pt.-time Lectr.
Reekie, J., B.Sc. Asst.
Carmichael, W. A., M.A. Asst.
Cranfield, R. V. (Mechanical) Asst.
Wilson, Marion A. M., B.Sc. Asst.
Ross, Marion A. S., M.A. Asst.
Cowie, A., B.Sc. Asst.

Physiology
Daly, I. de B., M.A. Camb., M.D. Camb. and Birm. Prof.
Bruce, A. N., M.D., D.Sc., F.R.C.P. (P. of Nervous System) Lectr.
Eggleton, P., D.Sc. Lond. Lectr.
Trowell, O. A., M.A., M.B. Camb. Lectr.
Bayliss, L. E., B.A., Ph.D. Camb. Lectr.
Cameron, J. D. S., M.B., Ch.B., F.R.C.P. Lectr.
Brown, A., M.B. Asst.
Elsden, S. R., B.A. Camb. Asst.
2 Technical Assts.

Pol. Econ., v. Comm., Hist.

Political Science
Nobbs, D., M.A. Camb. Lectr.

Psychology [Prof.
Drever, J., B Sc. Lond., M.A., Ph.D.
Collins, Mary, M.A., B.Ed., Ph.D. Lectr.
Semeonoff, B., M.A., B.Ed., Ph.D. Lectr.
M'Meeken, Agnes N., M.A., B.Sc. Asst.
Grant, Christina R., M.A., B.Ed. Asst.
Macdonald, A., M.A., B.Sc. Asst.

Rhetoric, v. English

Sanskrit and Comp. Philol.
Keith, A. Berriedale, B.A., D.C.L. Ox., M.A., D.Litt. Reg. Prof.

Semitic Langs., v. Hebrew

Spanish [Reader.
Walton, L. B., M.A., B.Litt. Ox.
Symington, K., M.A. Asst.
Seddon, Margaret H., M.A. Asst.

Statistics, v. Comm.

Theology, v. Divinity

Zoology, v. Nat. Hist.

Agriculture and Forestry

(v. also Bot., Engin.)

Agriculture and Rural Economy

Shearer, E., M.A., B.Sc. Prof.
More, J. A., B.Sc. Lectr.
Gordon, J. Evans, B.Sc., Ph.D. Lectr.

Agricultural Bacteriology

Gibson, Thomas, D.Sc. Lectr.

Agricultural Chemistry

Smith, A. M., Ph.D., D.Sc. Lectr.

Agric. and Forest Entomol.

Cameron, A. E., M.A., D.Sc. Lectr.
McHardy, J. W., B.Sc. Lectr.

Animal Genetics [Prof.

Crew, F. A. E., M.D., Ph.D., D.Sc.
Greenwood, A. W., Ph.D., D.Sc. Lectr.
Smith, A. D. B., M.A., D.Sc. Lectr.
Koller, P. C., Ph.D. Lectr.
Muller, H. J., Ph.D. Col. Lectr.
Blyth, Janet S. S., B.Sc., Ph.D. Asst.
Donald, H. P., B.Sc. Asst.

Forestry

Stebbing, E. P., M.A. Prof.
Pike, J. L., M.A., B.Sc. Reader.
Fergusson, D. C., B.Sc. Lectr.

Law

Administrative Law

Fisher, M. G., M.A., LL.B. Lectr.

Civil Law

Fisher, M. G., M.A., LL.B. Prof.
Maxwell, D., LL.B. Asst.

Constitutional Law, v. Hist.

Conveyancing [Prof.

Monteath, H. H., M.A., LL.B., W.S.
Henry, G. L. F., B.L. Asst.

English Law [Reader.

Findlay, Sir C. S., M.A., LL.B.

Evidence and Procedure

Eaton, H. W., B.L., W.S. Lectr.

Industrial Law

Philip, J. R., M.A., LL.B. Lectr.

International Private Law

Garrett, Wm., B.A. Camb., LL.B. Camb. and Glas. Reader.

Mercantile Law, v. also Comm.

Lillie, J. A., M.A., LL.B., K.C. Lectr.
Shewan, H. A., M.A., LL.B. Aberd. Asst.

Public Law [Reg. Prof.

Wilson, Wm., M.A., LL.B.
Eason, J.P., B.L., W.S. (Jurispr.) Asst.
Watson, J. P., B.A. Ox., LL.B., W.S. Asst.

Scots Law

Henderson, R. C., M.A., LL.B., K.C. Prof.
Guthrie, H. W., M.A., LL.B. Lectr.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology

Mackie, T. J., M.D. Glas., M.R.C.P.E., D.P.H. Ox. R. Irvine Prof.
Thomson, Scott, M.B., Ch.B. Lewis Cameron Lectr.
Rhodes, A. J., M.B., Ch.B. Lectr.
Oag, R. K., M.B., Ch.B. Asst.
Bisset, K. A., B.Sc. Asst.

Child Life and Health [Prof.

M'Neil, C., M.A., M.D., F.R.C.P.
Murray, J. McN., M.B., Ch.B. Lectr.
Wilson, W. C., M.B., Ch.B., F.R.C.S.E. Lectr.

Children, Diseases of [Lectr.

Finlay, T. Y., M.D., F.R.C.P.E.

Thatcher, L. H. F., M.D., F.R.C.P.E. Lectr.
Hertzfeld, Gertrude, M.B., Ch.B., F.R.C.S.E. Lectr.
Dott, N. McO., M.B., Ch.B., F.R.C.S.E. Lectr.
MacGregor, Agnes R., M.B., F.R.C.P.E. Lectr.
Wallace, H. L., M.B., Ch.B., F.R.C.P.E. Lectr.
Nicholson, D. N., M.B., Ch.B., F.R.C.P.E. Asst.
Henderson, J. L., M.B., Ch.B. Asst.
Dott, E. F., M.B., F.R.C.S.E. Asst.

Dental Diseases [Lectr.
Jamieson, J. D. H., H.D.D., L.D.S.

Dermatology, Clinical, v. *infra* Clin. Teaching Staff

Eye, Diseases of the, v. *infra* Clin. Teaching Staff

Forensic Med. [Reg. Prof.
Smith, S. A., M.D., D.P.H. Edin. and Glas., F.R.C.P.E.
Fiddes, F. S., M.B., Ch.B. Asst.

Gynæcology, Syst. and Clin., v. *infra* Clin. Teaching Staff

History of Med.
Comrie, J. D., M.A., B.Sc., M.D., F.R.C.P.E. Lectr.

Infectious Diseases
Joe, A., D.Sc., M.D., D.P.H. Lectr.

Laryng., Otol., and Rhinology, v. *infra* Clin. Teaching Staff

Materia Medica
Clark, A. J., M.C., B.A., M.D. Camb., F.R.S., F.R.C.P. Prof.
Robson, J. M., M.B., Ch.B. Leeds, D.Sc., M.D. Lectr.
Percival, G. H., M.B., Ch.B., Ph.D., D.P.H. Ed. and Glas., M.R.C.P.E. Asst.
Croom, J. Halliday, M.B., Ch.B. Asst.
Hill, I. G. W., M.B., Ch.B., F.R.C.P.E Asst.
Levvy, G. A., M B., Ch.B. Asst.
1 Tech. Asst.

Medicine, v. also *infra* Clin. Teaching Staff
Davidson, L. S. P., B.A. Camb., M.D., F.R.C.P.E. Prof.
McCrie, J. G., M.B., Ch.B., F.R.C.P.E. Lectr.
Hamilton, J. G. M., M.B., Ch.B. Asst.

Medicine, Clinical, v. also *infra* Clin. Teaching Staff
Lyon, D. Murray, D.Sc., M.D., F.R.C.P.E., D.P.H. Ed. and Glas. Prof.
Lamb, W. L., M.B., Ch.B., F.R.C.P.E. Lectr.
Lyon, R. M. Murray, M.D., F.R.C.P.E. Lectr.
7 Clin. Tutors.

Mental Diseases, v. Psychiatry

Midwifery and Diseases of Women, v. also *infra* Clin. Teaching Staff
Johnstone, R. W., C.B.E., M.A., M.D., F.C.O.G., F.R.C.S.E. Prof.
3 Tutors, 1 Tech. Asst.

Neuro-Pathology
Campbell, A. C. P., M.B., Ch.B. Lectr.

Orthopædics
Cochrane, W. A., M.B., Ch.B., F.R.C.S.E. Lectr.

Pathology, v. also Anat.—Morb. and Bacteriol.
Drennan, A. M., M.D., F.R.C.P.E. Prof.
Millar, W. G., M.B., Ch.B. Lectr.
Ogilvie, R. F., M.D. Lectr.
Cameron, J. R., M.B., Ch.B. Asst.

Macdonald, A. M., M.B., Ch.B. Asst.
MacGillivray, Miss I. M., M.B., Ch.B. Asst.

Psychiatry

Henderson, D. K., M.D., F.R.F.P.S. Prof.
Bruce, A. N., D.Sc., M.D., F.R.C.P.E. Lectr.
Bailey, J. R., M.B., Ch.B. Lectr.
M'Innes, R. G., L.R.F.P.S. Glas., M.R.C.P.E. Lectr.
Ross, C. M., M.B., Ch.B. Lectr.
Clarkson, R D., B.Sc., M.D. Lectr.

Public Health

Lelean, P. S., C.B., C.M.G., F.R.C.S., D.P.H. Lond. Prof.
Langrishe, J. du P., D.S.O., M.B., B.Ch. Dub., D.P.H. Lectr.
Clark, W. G., M.B., Ch.B. (M.O.H. for the city) (San. Admin.) Lectr.

Radiology and Electrical Therapeutics

McWhirter, Robert, M.B., Ch.B., F.R.C.S. Lectr.

Surgery, v. also *infra* Clin. Teaching Staff

Learmonth, J. R., Ch.M. Glas., F.R.C.S. Ed. (from 1.10.39) Prof.
Fraser, Sir John, K.C.V.O., M.C., M.D., Ch.M., F.R.C.S.E. (Clin. S.) Prof.
7 Clin. Tutors.
1 Tech. Asst.

Therapeutics, v. also *infra* Clin. Teaching Staff

Dunlop, D. Melville, B.A. Ox., M.D., M.R.C.P.E. Prof.
Arnott, W. Melville, B.Sc., M.D. Lectr.
Hill, I. G. W., M.B., Ch.B., F.R.C.P.E. Lectr.
Scarborough, H., M.B. Asst.
Thomson, J. C., B.Sc. Asst.

Tropical Climates Diseases

Greig, Lt.-Col. E. D. W., C.I E., I.M.S., D.Sc., M.D., C.M., F.R.C.P.E. Lectr.

Tuberculosis

..... Prof
Dick, B. M., M.B., Ch.B. Asst.
Simpson, J. C., M.B., Ch.B., D.P.H. Asst.

Venereal Diseases

Batchelor, R. C. L., M.A., M.B., Ch.B., F.R.C.S.E., D.P.H. Ed. and Glas. Lectr.
Lees, R., M.D., Ch.B., F.R.C.P.E. Asst.
Murrell, Marjory, M.B., B.S. Lond., F.R.C.S.E., M.R.C.S. Eng. Asst.

Clinical Teaching Staff

Clinical Surgery

Surgeons-in-Ordinary

Stuart, W. J., M.A., M.B., Ch.B., F.R.C.S.E.
Struthers, J. W., M.B., Ch.B., F.R.C.S.E.
Wade, Henry, C.M.G., D.S.O., M.D., F.R.C.S.E., F.A.C.S.
Fraser, Prof. Sir John, v. Surg.
Graham, J. M., M.B., Ch.M., F.R.C.S.E.
Watson, A. Pine, O.B.E., M.A., M.B., Ch.M., F.R.C.S.E.
Jardine, F. E., M.B., Ch.B., F.R.C.S.E.

Asst. Surgeons

Wood, W. Q., M.D., Ch.M., F.R.C.S.E.
Shaw, J. J. M., M.C., M.A., M.D., F.R.C.S.E.
Mercer, W., M.B., Ch.B., F.R.C.S.E.
Brown, K. Paterson, M.B., Ch.B., F.R.C.S.E.
Stewart, R. L., M.B., Ch.B., F.R.C.S.E.

Miller, T. M'W., M.B., Ch.B., F.R.C.S.E.
Illingworth, C. F. W., M.D.
Aird, Ian, M.B., Ch.B.
Adamson, W. A. D., M.B., Ch.B., F.R.C.S.E.
Band, David, M.B., Ch.B., F.R.C.S.E.
Bruce, J. A., M.B., Ch.B.
Easton, I. D., M.B., Ch.B.
Dick, B. M., M.B., Ch.B.

Clinical Medicine

Physicians-in-Ordinary

Ritchie, W. T., O.B.E., M.D., Ch.M., F.R.C.P.E.
Lyon, Prof. D. Murray.
Comrie, J. D., v. Hist. of M.
Goodall, Alex., M.D., F.R.C.P.E.
Hewat, A. Fergus, M.D., F.R.C.P.E.
Small, W. D. D., M.D., F.R.C.P.E.
Alexander, W. A., M.B., Ch.B., F.R.C.P.E.

Asst. Physicians

Gilchrist, A. R., M.B., Ch.B., F.R.C.P.E.
Todd, T. R. R., M.D., F.R.C.P.E.
Slater, J. K., M.B., Ch.B., F.R.C.P.E.
Cameron, J. D. S., M.D., F.R.C.P.E.
McCrie, J. G., M.B., Ch.B., F.R.C.P.E.
Russell, W. R., M.D.
Lyon, R. M. Murray, M.D., F.R.C.P.E.
Lamb, W. L., M.B., Ch.B.

Clinical Gynæcology

Gynæcologists

Johnstone, Prof. R. W., v. Midwif.
Haultain, W. F. T., O.B.E., M.C., B.A., M.B., B.Ch. Camb., M.R.C.P.E., F.R.C.S.E.
Miller, D. A., M.D., F.R.C.S.E., F.R.C.P.E.

Asst. Gynæcologists

Fahmy, E. C., M.B., F.R.C.S.E.
Sturrock, J., M.B., F.R.C.S.E.
Robertson, E. M., M.B., F.R.C.S.E.
Kennedy, C. D., M.B., F.R.C.S.E.
Dewar, J. B., M.B., F.R.C.S.E.
Thin, R. T., M.A., M.B., Ch.B., F.R.C.S.E.
Lister, W. A., M.B., Ch.B.

Ophthalmology

Surgeons

Traquair, H. M., M.D., Ch.M., F.R.C.S.E., D.P.H.
Cameron, E. H., M.B., Ch.B., F.R.C.S.E.

Asst. Surgeons

Graham, C. W., M.B., Ch.B., F.R.C.S.E.
Paterson, J. R., M.B., Ch.B., F.R.C.S.E.

Ear, Nose, Throat

Surgeons

Hall, I. S., M.B., Ch.B., F.R.C.S.E.
Martin, G. E., M.A., M.B., Ch.B., F.R.C.S.E.

Asst. Surgeons

Stewart, J. P., M.D., F.R.C.S.E.
Smith, A. B., M.D., F.R.C.S.E.

Diseases of the Skin

Physician

Aitken, R., M.D., F.R.C.P.E.

Asst. Physicians

Percival, G. H., Ph.D., M.D., F.R.C.P.E., D.P.H.
Peterkin, G. A. G., M.B., Ch.B., M.R.C.P.E.

Physical Education

Campbell, Col. R. B., D.S.O., M.A. Director

University Extension

19 Tutors, including 6 Univ. Profs. and 11 Univ. Lectrs.

Romanes Lecturer

1938—Irving, Langmuir, D.Sc., Ph.D., LL.D.

Gifford Lecturer in Nat. Theol.

1938–39, 1939–40—Prof. N. Niebuhr, D.D. (Union Seminary, N.Y.).

Sharpey Schafer Memorial Lecturer (Physiology)

1939—Prof. C. A. Lovatt Evans, D.Sc., F.R.S. (University College, London).

CONSTITUENT COLLEGE

NEW COLLEGE (founded in 1846 by the Free Church of Scotland: from 1900 a Divinity Hall of the United Free Church of Scotland, and from 1929 of the reunited Church of Scotland in union with the Divinity Hall of the Church of Scotland as previously constituted by the University Faculty of Divinity), the seat of the Faculty of Divinity in the University as enlarged after 1929, owned and maintained by the Church of Scotland, and accommodating the ordinary and the postgraduate courses in Theology. Principal and permanent Dean of Faculty, Rev. Prof. W. A. Curtis, D.D., D.Litt., D.Théol. Secretary, Rev. Prof. Hugh Watt, D.D. *Staff*: The Univ. Professors, Reader, and Lecturers, as above. *Librarian*: Rev. A. Mitchell Hunter, D.Litt. (over 100,000 vols. in the collection). *Christian Sociology*, Rev. W. S. Tindal, M.A., Warden of New College Settlement. *Elocution*, Graeme Goring.

AFFILIATED COLLEGES

HERIOT-WATT COLLEGE, Chambers St., Edinburgh. Founded as School of Arts, 1821; present title adopted 1885. Affiliated to the Univ. of Edinburgh, Feb. 7, 1933. Chairman of Governors, The Lord Provost of Edinburgh. *Principal*, J. C. Smail, O.B.E. The College provides instruction in Day and Evening Classes for those following or proposing to follow technical careers in Mech. Eng., Electr. Eng., Mining Eng., Applied Chem., Brewing, Pharmacy, Optics, Building and Printing. Evening Courses are also provided in Commerce, Langs. and Music. Special courses arranged for research students and for others requiring particular instruction in Laboratory or Workshop Practice, etc. Diplomas and Associateships for full-time day study in Mech. Eng., Electr. Eng., Mining Eng., Applied Chem., Brewing and Distilling. Mine Rescue Station available for instruction of day students. The Coll. is authorized by the Home Office to grant Certifs. to mine firemen, examns. being arranged at various centres in the area under control of the Coll., including the Lothians, Fife and Clackmannan.

Entrance examinations in Sept. Exemption granted to students who hold the Leaving Certif. of the Scottish Edn. Dept., or have passed the Scottish Univs. Prelim. Examns., or satisfy the Principal as to the adequacy of their general education.

Students holding a degree in Pure or Applied Sci. of a recognized Univ. may be admitted for special study for the Diplomas and Associateship.

Fees: Entrance examn., £1 : 1s., remitted on passing and joining the Coll. Admission direct to Second or Third Yr. Courses, 30s. or 60s. addnl. respectively. Matricn. fee for each session, £1 : 10s. for Dipl. Course students; others, 10s. Tuition fees for Diploma courses: Mech. or Elec. Engin., £27 p.a.; Mining Engin., £30 p.a.; Applied Chem., £25 p.a. (1st and 2nd yrs.), £20 p.a. (3rd and 4th yrs.); Brewing, £15 : 15s. p.a.

Staff: *Chem.*, Prof. T. Slater Price, O.B.E., D.Sc., Ph.D., F.I.C., F.R.S.; Sr. Lectr., J. Sandilands, F.I.C.; 9 other Lectrs. *Eng., Electr.*, Prof. M. G. Say, Ph.D., M.Sc., A.C.G.I., D.I.C., M.I.E.E.; Asst. Prof. E. N. Pink, B.Sc.; 2 Lectrs. *Eng., Mech.*, Prof. A. R. Horne, O.B.E., B.Sc., M.I.Mech.E.; Asst.

Profs. H. H. Vaughan, B.Sc., M.I.Mech.E., R. S. Smillie, B.Sc.; 6 Lectrs. *Eng.*, *Mining*, Prof. W. H. McMillan, B.Sc., M.I.Min.E., F.I.F.; 4 Lectrs. *Maths.*, 2 Lectrs. *Physics*, 4 Lectrs. *Building*, 1 Lectr. *Printing*, 5 Lectrs. 89 addnl. Lectrs. and Instrs.

ROYAL (DICK) VETERINARY COLLEGE, EDINBURGH. Founded 1823, incorporated 1906. Affiliated to the Univ. of Edinburgh 1933. A matricn. fee of 10s. 6d. and Athletic fee of 10s. payable at the beginning of each session. Class fees for all subjects, £26 : 5s., for each period of 3 terms. Facilities for post-graduate study (enquiries to be addressed to the Principal).

Principal: Col. Sir Arthur Olver, C.B., C.M G., F.R.C.V.S. Profs.: *Anat.*, T. Grahame, T.D., F.R.C.V.S.; *Hyg. and Dietetics*, R. G. Linton, Ph.D., M.R.C.V.S.; *Med. and Pharmacol.*, G. F. Boddie, B.Sc., M R.C.V.S.; *Pathol., Bacteriol. and Meat Inspection*, D. C. Matheson, F.R.C.V.S., D.V.S.M.; *Physiol*, H. Dryerre, Ph.D., M.R.C.S. Eng., L.R.C.P. Lond.; *Surgery and Obstet.*, W. M. Mitchell, M.C., T.D., B.Sc., M.B., Ch.B., M.R.C.V.S. 5 Sr. Lectrs., 10 Jr. Lectrs., 9 External Teachers, 1 Consulting Radiologist, 1 House Surgeon.

ASSOCIATED COLLEGE, in which Univ. courses are provided.

EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. III. p. 924. Principal: Prof. E. Shearer, M.A., B.Sc. *Agric. and Rural Econ.*, the Univ. staff, A. K. M. Meiklejohn, B.Sc. (evening classes); *Agric. Engin. and Surveying*, L. M. Walker, B.Sc., H. R. Smith, N.D.A, Asst. Lectr.; *Bacteriol.*, T. Gibson, D.Sc., Barbara J. Shearer, B.Sc., Asst. Lectr.; *Botany* (*Agric. Hortic. and Economic*), E. W. Fenton, M.A., D.Sc., F. Earnshaw, B.A., Asst. Lectr.; *Chem. and Agric. and Forest Chem.*, A. M. Smith, Ph.D., D.Sc., A.I.C., I. M. Robertson, B.Sc., Ph.D., J. M'Gillivray, C.D.A., A. Comrie, B.Sc., Ph.D., Asst. Lectrs. and Demrs., 1 Analyst; *Horticulture*, J. S. Chisholm; *Vet. Sci.*, Major E. D. S. Robertson, M.R.C.V.S.; *Zool.*, P. F. Kendall, B.Sc. 9 Advisory and 30 Extension staff.

GENERAL INFORMATION, v. also pp. 351 ff.

Originally the "Town's College," founded in 1583 by the Town Council under general powers granted by Royal Charter, April 14, 1582. The Old College on the site of "Kirk o' Field," the scene of the murder of Lord Darnley, was designed by Robert Adam, and completed in 1838. Newer buildings include the Medical Buildings and the McEwan Hall (1888–97), which holds 2600 and has a great electric organ; and "The King's Buildings" (commenced in 1920) for Chemistry and other Science Depts. The Medical School of this Univ. has been famous for many generations; specially ample provision exists also for instruction and research in Theology (post-grad. school instituted 1919), Agric., For., Engin., Mining, and Vet. Sc. Edinburgh is the seat of the Scottish Supreme Courts of Law.

LIBRARY, founded in 1580, about 500,000 vols., 8000 MSS., includes special collections—Shakespearean (Halliwell-Phillipps), Persian and Arabic MSS., Economics (Hodgson), Math. tables by E. Sang, transactions of Engin. Societies in Great Britain and America, the Laing Charters (A.D. 854–1837), the Laing manuscripts, the Abercromby collection of 2500 vols. on archæology, ethnology, etc.; the Blackie collection of modern Greek books, the Bruce collection of books on oceanographical subjects, the Cameron and Mackinnon collections of Celtic literature. MUSEUMS: Nat. Philos., Fine Art, Geol., Nat. Hist., Chem., Forestry, Agric., Entom. and Forest Zool. (Water-

house collection of Coleoptera), Anat. (founded with the Monro collection in 1800; numerous specimens of Cetacea and human crania), Physiol., Mat. Med. (notable collections of medicinal and food substances, including those of Duncan and Christison), Forensic Med., Practice of Physic, Surg., Obst. (Simpson collection), Music and Musical Instruments. The Prof. of Botany is Regius Keeper of the *Royal Botanic Garden*; the Prof. of Astronomy is Astronomer Royal for Scotland and gives practical courses at the *Royal Observatory*. The LABORATORIES are especially well equipped for research in Anatomy, Anthropology, Bacteriology, Chemistry (the Labs. at King's Buildings, completed 1924, have accommodation for about 400 students), Zool., Mining, Engin. (notably Hydrs., Strength of Materials, Elec. Engin.), Mat. Med., Path., Physics, Physiol., Psych., Pub. Health. The Jane Findlay Thomson Commercial Laboratory facilitates the training of B.Com. students in practical business methods. The Univ. has a table at the Millport Marine Station. HOSPITALS: the Royal Infirmary adjoining the Univ. provides over 900 beds for clinical teaching, in addition to the Children's, Maternity, and Fever Hospls., the Royal Mental Hospl., the Royal Victoria Hospl. for Tuberculosis, and the Municipal Hospls. Over 50 resident posts in these are given annually to Med. graduates.

FACULTIES. (1) Arts, (2) Science (including Engineering, Mining, and Metallurgy, Technical Chemistry, Public Health, Agriculture, Forestry, and Veterinary Science, as well as Pure Science), (3) Divinity, (4) Law, (5) Medicine, (6) Music. Deans: (1) Prof. W. M. Calder (Greek), (2) Prof. Sir T. Hudson Beare (Engin.), (3) Prof. W. A. Curtis (Biblical Criticism), (4) Prof. W. Wilson (Public Law), (5) Prof. Sydney Smith (Forensic Med.), (6) Prof. Sir D. F. Tovey (Music).

There are 6 Directors of Studies in the Faculty of Arts, 5 in the Faculty of Science, and 1 for those combining studies in the Faculties of Science and Medicine.

ADMISSION. *See* Appendix I.

DEGREES (v. also pp. 352 ff.).

A candidate for the B.Sc. in *Vet. Sc.* must (i) have passed the Prelim. examn. for degrees in Sc., (ii) have been engaged in Vet. study for 4 yrs., (iii) have a registrable qualification, (iv) have attended certain specified courses, including 1 yr. of study in this Univ. The Royal (Dick) Vet. Coll., Edin., provides certain of the qualifying courses.

Candidates for the *Mus.Bac.* must have passed the Prelim. Examn. or its equivalent, and attended a course in this Univ. during 3 winter sessions. A Mus.Bac. of 3 yrs.' standing may offer himself for the Mus.Doc. (which may also be conferred *honoris causa*) as Composer, as Executant, or as Theorist or Historian.

DIPLOMAS. Actuarial Mathematics, 2 yrs.—open to persons previously admitted as students of the Faculty of Actuaries.

Agricultural Science, 1 yr.—open to Hons. grads. in Sci. or Econ., or Ordinary grads. in Agric. of this or any other approved Univ.

Education—open to persons who have attended a course of Professional training or have had at least 3 yrs.' experience as a teacher, and have completed a graduation course in Arts or Sci. The diploma is granted on completion of Univ. courses (1 yr.) and passing examns. in Psych., Theory and Hist. of Edn., and modern Edn. Systems and Problems.

English Language—open to grads. with Hons. in English who have specialized in Lit. in Final Hons. examn.

Psychiatry, Public Health, Radiology (each 1 yr.), Tropical Med. and

Hygiene, Tropical Vet. Med. (each 6 months)—open to grads. in Med. of the Univ. and others holding corresponding degrees or registrable qualifications.

Social Study (1 yr.)—open to grads. of British or other approved Univs. with certain restrictions as to subjects taken for degree. A Certificate (2 yrs.) is granted to those whose education is equivalent to Univ. Entrance standard.

A Health Visitor's Certificate is also granted (6 months) to registered nurses, who must hold the Central Midwives' Board certif. or sign an undertaking that they are willing to obtain this.

Technical Chemistry (1 yr.)—open to grads. of British or other approved Univs. who have taken a Science degree with Hons. in Chemistry.

POSTGRADUATE COURSES in Medicine are held during the Summer and Autumn Terms and the *Summer Vacation*. Particulars obtainable from the Hon. Sec., P.-G. Courses in Med., Univ. New Buildings, Edinburgh. The Post-graduate School of Theology issues a detailed list of courses. Graduates contemplating research should apply to the Deans.

SCHOLARSHIPS (v. also pp. 354-55). Total annual value over £30,000; for graduates only, £6000. Most are open to colonial and foreign students. The Earl of Moray's Endowment provides about £1100 p.a. for *research*.

Travelling for study or research is encouraged by Dickson Fund (£120 p.a.), Dundas Latin Studies Fund (£40 p.a.), Drummond Mathematical Scholarship (£140 p.a. for 2 yrs.), Maclaren Mathematical Scholarship (£200 for 2 yrs.), Scott Scholarship for Graduates in Arts (£77), M'Cosh Bursaries for Graduates in Medicine (£312), Lorimer Scholarship in Law (£170 for 1 yr.). V. also App. II.

FEES (v. also Carnegie Trust, p. 355). Matriculation, 2½ gs. p.a. Inclusive tuition fees for M.A., Ord., 45 gs., Hons., 60 gs.; LL.B., 42 gs.; B.L., 30 gs.; B.Sc. Engin., 90 gs.; Agr., Ord., 90 gs., Hons., 120 gs.; Mining, 105 gs.; Forestry, 105 gs.; Technical Chemistry, 120 gs.; Pure Sc., 100 gs.; B.D., 39 gs.; M.B., Ch.B., including Hospl. Fees, 205 gs. Combined M.A. and B.Sc. in Pure Sci., 130 gs.; M.A. and B.Sc. in Agr. or Engin. or For., 115 gs.; M.A. and B.Com. or LL.B., 70 gs.; M.A. and B.L., 65 gs.; B.Sc. in Agr. and in For., 135 gs. Examination: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; Mus.Bac., 15 gs.; Mus.Doc., 15 gs.; Ph.D., 10 gs.; B.Sc., 9 gs.; D.Sc., 15 gs.; M.B., 33 gs.; M.D., 20 gs.; Ch.M., 20 gs.

HALLS OF RESIDENCE, ETC. For men: Cowan House, George Square (Warden: W. K. Smith, M.A.), accommodation for about 100 students, terms, £17: 10s. to £23 per term; University Hall on a self-governing basis (information from Messrs. Whitson and Methuen, 21 Rutland Street), board and lodging about £2: 10s. a week. For women: five hostels at Craigmillar Park, East Suffolk Rd. (Warden: Miss E. E. Looker, B.A.), £52: 10s. for the three terms; Masson Hall, 31 and 32 George Square (Warden: Miss J. M. Sergeaunt, M.A., B.Litt.); and Muir Hall, 12 George Square (Warden: Mrs. Cullum), £54 to £72 p.a. Six months' notice generally necessary.

APPOINTMENTS COMMITTEE. Secretary, Old College, The University.

GENERAL ADVISER OF WOMEN STUDENTS: Miss J. M. Sergeaunt, M.A., B.Litt., Old Quadrangle.

INDIAN STUDENTS' ADVISER: J. E. Mackenzie, D.Sc.

OVERSEAS STUDENTS' ADVISER: J. de Gruchy Gaudin, M.A.

There is a Franco-Scottish Society for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd., and Dundee.

EDINBURGH UNIV. CLUB OF LONDON. Secretaries: Dr. Bruce Williamson. 12 Wimpole St., W.1; Dr. A. Landale Clark, 42 Brook St., W.1.

UNIV. EXTENSION, ETC. There is an Adult Education Committee which arranges courses of lectures in the south-east of Scotland. The Univ. is now represented on the Advisory Committees for the management of the Tutorial Classes for adults instituted by the Edin. Educational Authority, in co-operation with the Edinburgh W.E.A. Summer Classes (4 weeks) for Teachers are held during vacation, the lecturers being drawn mainly from the Univ. staff. Certificates gained at the courses qualify for endorsement on teachers' certificates.

OFFICIAL PUBLICATIONS. The *Calendar* (Sept.), 5s.; the *Prelim. and Degree Examn. Pprs.* (May and July), 5d. to 2s. a set (James Thin, 55 South Bridge). The *Students' Handbook* issued by the Students' Representative Council. *Facilities for advanced Study and Research* free on application.

HISTORIES OF THE UNIV.: Bower, Alexr., chiefly compiled from original papers and records, never before published, 3 vols., Edin., 1817–30; Dalzel, Andrew (ed. by D. Laing), with a Memoir of the Author (by C. Innes), 2 vols., Edin., 1862; Grant, Sir Alexr., The Story of the Univ. during its first 300 years, 2 vols., London, 1884; by various contributors, edited by Turner, A. Logan, 1883–1933, Edin., 1933.

THE YEAR 1937–38

BENEFACTIONS. Bequest by Miss Elizabeth Sinclair Irvine of residue of her estate, estimated at about £10,000, to Dept. of Forestry. Bequest by Miss Christian Rowe of £1000 for foundation of a Bursary for students in Surgery. Bequest by Mr. G. M. McLauchlan of a sum sufficient to provide a Bursary of £140 p.a. in Dept. of Celtic. A further allocation by the Executors of Lady Dewar of £10,000 for scientific research. Bequest by Sir J. W. T. Thomson-Walker, F.R.C.S., of a collection of about 2500 prints of engraved portraits of medical men, a collection of 39 books, and a sum of £500, free of duty, to provide accommodation in cabinets for the collection. Intimation by Rockefeller Foundation of grants of £500, £400 and £300 towards stipend of Macaulay Research Fellow in Dept. of Animal Genetics, for next 3 yrs. Gift by Dr. J. Donald Pollock, member of Univ. Court, of a site of 2½ acres on which to erect Gymnasium, Swimming Bath, etc. Gift by Dr. Pollock of Bristo Church building (to be known as the Pollock Memorial Hall, in memory of his father and mother). Gift of $1000 to Dept. of Chemistry by an anonymous donor. Gift by British Aluminium Co., of a set of specimens of fabricated aluminium to Dept. of Chemistry. Gift by Association Franco-Écossaise of Fs.3000 for an annual prize to a Scottish student to travel in France during the vacation. Gift by Dr. G. F. Barbour Simpson to Dept. of Midwifery of his extensive and valuable collection of teaching material, in memory of his father, Professor Sir A. R. Simpson, and of his grand-uncle, Sir J. Y. Simpson.

RECENT DEVELOPMENTS. Approval was intimated by H.M. in Council of the Ordinance Edinburgh No. 66 (Regulations as to addition to membership of Faculties). A new curriculum for Diploma in Tropical Veterinary Medicine and revised regulations for Diploma in Public Health were approved by Univ. Court. The Rector issued a letter to all students recommending them to avail themselves of the arrangements for free medical examination. The Univ. Court accepted an offer by the General Assembly of the Church of Scotland to transfer to the Univ. the Chair of Christian Ethics and Practical Theology.

The Bristo Church building, gifted to the University by Dr. J. Donald Pollock, which comprises several smaller rooms in addition to the church, is being used as a meeting place for Student Societies and other activities. A new building to be known as "The King's Buildings Common Room," comprising Dining Hall, a Common Lounge, Reading and Writing Rooms, Gymnasium, etc., has been erected at the King's Buildings, West Mains Road. The Surgical Research Laboratory was considerably extended by addition of a third story. The extension, which was the gift of an anonymous donor, cost £7000, and was opened on 20th July 1938 by the Rt. Hon. Walter Elliot, M.P., Minister of Health.

OTHER EVENTS. The Rt. Hon. Baron Tweedsmuir of Elsfield was installed as Chancellor of the University on 20th July 1938. A Luncheon was given to the Annual Congress of Confédération Internationale des Étudiants in July. A Reception was given to the British Pharmaceutical Conference which met in Edinburgh in September.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. I. de Burgh Daly (Physiol.), was invited to deliver lectures in Budapest. Emer. Prof. Sir Herbert Grierson (English) was invited to lecture in the U.S.A.

VISITING LECTURERS. Gifford Lecturer for 1936–38—Sir Charles S. Sherrington, O.M., F.R.S., second course of 10 lectures on "Biology and Natural Religion." Munro Lecturer—Prof. V. Gordon Childe (Abercromby Prof. of Prehistoric Archæol.), 10 lectures on "The Orient and Europe." T. S. Elliot, 2 lectures on "Shakespeare"; Jules Romains, "L'Auteur et ses personnages"; Prof. E. de Lorey (École du Louvre), 2 lectures—(1) "Delacroix et Le Romantisme Littéraire"; (2) "The Orient and Modern Painting"; Hans Grimm, "The Britisher as I see him"; Stanley Casson, M.A., "Some Aspects of Modern Sculpture"; Prof. F. Ganshof (of Ghent), 3 lectures on "The Mediæval Cities of Flanders and Brabant"; Prof. Levin L. Schucking (Univ. of Leipzig), 2 lectures—(1) "The Baroque Character of the Elizabethan Tragic Hero"; (2) "Annette von Droste-Hulshoff"; A. D. K. Owen, M.Comm. (Stevenson Lecturer in Citizenship of the Univ. of Glasgow), "The Future of British Population"; Prof. P. P. Ewald, "X-rays and their Relation to Optics"; Prof. C. Heymans (Univ. of Ghent), "Some Aspects of Blood-Pressure Regulation and Experimental Arterial Hypertension"; Prof. B. P. Babkin (McGill Univ.), 2 lectures—(1) "The Regulation of the Secretory Activity of the Gastric Glands"; (2) "Conditioned Reflexes: their Significance in the Light of Recent Work;" Prof. F. Kögl (Univ. of Utrecht), "Vegetable Hormones or Auxins."

EXTRA-MURAL WORK. Classes conducted by the Edinburgh Workers' Educational Association, which meet in the University Buildings, had an enrolment of 411 men and 883 women—total, 1294. A University Extra-mural Committee organizes Courses of Lectures in the south-east area of Scotland. Classes were held in 21 centres, attended by 747 students.

DEATH. Sir David Wilkie, Professor of Surgery.

RETIREMENTS. Prof. James Mackintosh (Civil Law); Prof. W. J. Watson (Celtic); J. E. Mackenzie (Chem.).

RESIGNATIONS. A. J. D. Porteous (Philos.), on appt. to Chair of Education in Liverpool; C. R. Wason (Classical Archæol.); J. D. Sutherland (Psychol.); C. A. Green (Bacteriol.); R. L. Saunders (Anat.); C. G. Anderson (Lewis Cameron Teaching Fellow).

HONORARY DEGREES. *D.D.*—Rev. Archibald Campbell Craig, M.C., Chap-

lain to the Univ. of Glasgow ; Rev. William Wallace Dunlop Gardiner, Minister of Greyfriars Church, Edinburgh ; Very Rev. Dr. Hermann Albert Hesse, Director of the Seminary of Pastoral Training, Elberfeld (*in absentia*) ; Rev. Ninian Hill, formerly Minister of St. Andrew's Church, Jerusalem ; Rev. Canon Leonard Hodgson, Regius Professor of Moral and Pastoral Theology, and Canon of Christ Church, Oxford ; Rev. George Shaw Stewart, Professor in the Congregational and United Free Church College, Edinburgh. *LL.D.*—Rt. Hon. Baron Tweedsmuir of Elsfield, Governor-General of Canada ; Rt. Hon. Sir John Anderson, G.C.B., G.C.S.I., G.C.I.E., M.P. for the Scottish Universities ; Rt. Hon. Walter Elliot Elliot, M.P., F.R.S., Minister of Health ; Sir Alexander Gibb, G.B.E., C.B., F.R.S. ; Mr. Eric Gill, A.R.A. ; Rt. Hon. Baron Gowrie of Canberra and Dirleton, V.C., G.C.M.G., C.B., D.S.O., Governor-General of the Commonwealth of Australia ; Rt. Hon. the Lord Provost of the City of Edinburgh (Sir Louis Stewart Gumley, D.L.) ; Prof. Hugh Macilwain Last, Camden Professor of Ancient History, Oxford ; Most Hon. the Marquess of Linlithgow, K.T., G.M.S.I., G.M.I.E., D.L., Viceroy and Governor-General of India ; Miss Violet Rosa Markham, C.H., J.P. (Mrs. Carruthers), Deputy Chairman, Unemployment Assistance Board ; Rt. Hon. William Shepherd Morrison, M.C., K.C., Minister of Agriculture and Fisheries ; Sir Edward Robert Peacock, G.C.V.O., Director of the Bank of England, Receiver-General of the Duchy of Cornwall ; Rt. Hon. Lord Eustace Percy, Rector of King's College, Newcastle, and Pro-Vice-Chancellor, University of Durham ; Mr. Ernest Maclagan Wedderburn, O.B.E., Deputy Keeper of His Majesty's Signet, formerly Prof. of Conveyancing in the University of Edinburgh.

STUDENTS. Full-time : 3174, including 160 graduates. Part-time : 480, including 95 graduates.

DEGREES. B.D., 19 (m.) ; M.A. (Ord.), 77 (m.), 89 (w.) ; M.A. (Hons.), 45 (m.), 37 (w.) ; B.Com., 7 (m.), 10 (w.) ; B.Ed., 4 (m.), 4 (w.) ; B.L., 29 (m.), 8 (w.) ; LL.B., 20 (m.), 2 (w.) ; B.Sc. Pure (Ord.), 1 (m.), (Hons.), 27 (m.), 13 (w.) ; B.Sc. Engin. (Ord.), 17 (m.), (Hons.), 12 (m.) ; B.Sc. Agric. (Ord.), 10 (m.), (Hons.), 3 (m.) ; B.Sc. Forestry (Ord.), 7 (m.) ; B.Sc. Tech. Chem. (Ord.), 1 (m.), (Hons.), 3 (m.) ; B.Sc. Veterinary, 6 (m.) ; B.Sc. Mining (Ord.), 1 (m.), (Hons.), 1 (m.) ; D.Sc., 9 (m.) ; M.B., Ch.B., 175 (m.), 32 (w.) ; M.D., 29 (m.), 2 (w.) ; Mus.Bac., 6 (m.), 2 (w.) ; Mus.Doc., 5 (m.) ; Ph.D. Arts, 5 (m.), 1 (w.) ; Ph.D. Science, 26 (m.), 2 (w.) ; Ph.D. Medicine, 3 (m.), 1 (w.) ; Ph.D. Divinity, 11 (m.) ; Law, 2 (m.) ; D.Litt., 1 (m.).

DIPLOMAS. D.P.H., 9 (m.), 2 (w.) ; D.T.M. & H., 2 (m.) ; D. Psychol., 6 (m.) ; D. Radiol., 3 (m.) ; D.T.V.M., 4 (m.) ; Dipl. Educ., 37 (m.), 15 (w.) ; Dipl. Social Study, 7 (w.) ; Cert. Social Study, 7 (w.) ; Tech. Chem., 1 (m.) ; Agric. Sc., 2 (m.).

UNIVERSITY OF GLASGOW

Founded 1451

CHANCELLOR—Sir DANIEL M. STEVENSON, Bt., LL.D., D.L.

VICE-CHANCELLOR AND PRINCIPAL—Sir HECTOR HETHERINGTON, LL.D. Glas. and Liv., M.A.

RECTOR—Rt. Hon. Sir ARCHIBALD SINCLAIR, Bt., C.M.G.

DEAN OF FACULTIES—Emeritus Prof. F. O. BOWER, LL.D. Aberd., Glas., Brist., Sc.D. Camb., Dub., D.Sc. Sydn., Leeds, F.R.S.

SECRETARY OF THE UNIV. COURT—J. S. MUIRHEAD, D.S.O., M.C., B.A. Ox., LL.B.

CLERK OF SENATE—Prof. J. R. CURRIE, M.A. Ox. and Glas., M.D., D.P.H.

REGISTRAR—ROBT. BROUGH, J.P.

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—W. R. CUNNINGHAM, M.A., LL.D.

CLERK OF THE GENERAL COUNCIL—D. M. HUTCHISON, LL.B.

Telephone : Glasgow, Western 3991.

TEACHING STAFF

Accountancy

Macdonald, I. W., C.A. Prof.
McKellar, A., C.A. Asst.

Agriculture, v. *infra* West of Scotland Coll. of Agr.

Anatomy

Blair, D. MacCallum, D.Sc. Lond., M.B., Ch.B. Reg. Prof.
Bacsich, P., M.D. (Embryology) Lectr.
Wyburn, G. M., M.B., D.Sc. Lectr.
Walls, E. W., M.B., Ch.B. Lectr.
Roberts, J. G., M.B., Ch.B. Asst.
Brown, D. B., M.B., Ch.B. Asst.
Lynch, J. B., M.B., Ch.B. Asst.
Aitken, J. T., M.B., Ch.B. Asst.
Love, W., M.B., Ch.B. Asst.

Arabic

Robson, J., M.A. Lectr.

Astronomy

Smart, W. M., M.A., D.Sc., F.R.A.S. Reg. Prof.

Bio-Chemistry, v. Med.—Pathol. Bio-Chem.

Botany

Walton, J., M.A. Camb., D.Sc. Manc. Reg. Prof.

Lecturers

Williams, S., M.Sc. Manc., Ph.D.
Thomson, J., M.A., B.Sc., Ph.D.
Jones, S. G., D.Sc.
Case, Isobel M., M.A., B.Sc., Ph.D.
Bond, G., B.Sc., Ph.D.
Asprey, G. F., B.Sc. Lond., Ph.D.

Celtic

Matheson, A., M.A. Edin. Lectr.
Jackson, K., M.A. Camb. (from 1.10.39) Lectr.

Chemistry, v. also Physiol. Chem.

..... Reg. Prof.

Lecturers
Knox, J., D.Sc. Aberd. (Med. Students).
Roberts, J., M.A.
Henderson, A., M A., B Sc.
Mair, J. A., B.Sc., Ph.D. (Anal. Chem.).
Chisholm, D., B.Sc., Ph.D. (Med. Students).
M'Culloch, W. P., B.Sc.
Gibson, D. T., M.Sc., Ph.D. Belf., D.Sc.
Blair, R. D., B.Sc., Ph.D.
Bell, J., Ph.D., D.Sc.

Assistants
Lewin, Christina T., B.Sc.
Auld, J. G., B.Sc., Ph.D.

Chemistry, Organic
Patterson, T. S., D.Sc. Lond. and Glas., Ph.D. Heid. Gardiner Prof.
Tucker, S. H., M.A. Ox., D.Sc., Ph.D. Lond. Lectr.
Buchanan, C., B.Sc., Ph.D. Lectr.
Stevens, T. S., B.Sc., D.Phil. Ox. Lectr.
Kent, Andrew, M.A., B.Sc., Ph.D. Lectr.
Storrie, F. R., B.Sc., Ph.D. Carnegie Teaching Fellow.
Loudon, J. D., Ph.D., D.Sc. Carnegie Teaching Fellow.
Robertson, J., B.Sc. Asst.
M'Alpine, Irene M., B.Sc., Ph.D. Asst.

Chemistry, Physical
Wright, Robert, D.Sc. Belf. Lectr.
Mitchell, Stotherd T. R. S., D.Sc., Ph.D. Lectr.
Thomson, George, B.Sc., Ph.D. Lectr.

Classics : Greek, v. also Philol.
Rennie, W., M.A. Edin. and Camb., Litt.D. Liv., LL.D. Edin. Prof.

Lecturers
Gomme, A. W., B.A. Camb. (Gk. Hist.).
Kitto, H. D. F., B.A. Camb.
Muir, W. E., B.A. Ox., M.A. Glas.

Classics : Latin, v. also Philol.
Fordyce, C. J., M.A. Glas. and Ox. (Humanity) Prof.

Lecturers
Nisbet, R. G., M.A. Glas. and Ox.
Pirie, J. W., M.A. Aberd. and Ox.
McGlynn, P., M.A., D.Litt.
Mackay, J. M., B.A. Ox., M.A.
Way, J. A. H., B.A. Ox.

Divinity, v. also Hebrew
Fulton, W., M.A., B.Sc., D.D. Primarius Prof.
Macgregor, Rev. G. H. C., M.A. St. And., B.D. Camb., D.D. Edin., D.Litt. (Bib. Crit.) Prof.
Main, A., B.A. Ox., M.A., D.Litt., D.D. (Church Hist.) Prof.
Riddell, J. G., M.A. Edin. (Syst. Theol.) Prof.
Niven, W. D., D.D. Aberd. (N.T. Lang. and Lit.) Prof.

Economics, v. Pol. & Social Econ.

Education
Boyd, W., M.A., B.Sc., D.Phil. Lectr.
Inglis, W. B., M.A., Ed.B., Ph.D. Lectr.

Embryology, v. Anat.

Engineering, v. *infra*

English Language and Literature
Alexander, P., M.A. Reg. Prof.
Girvan, R., M.A. (Eng. Lang.) Lectr.
Gray, Margaret M., M.A. Lectr.
Purser, J. W. R., B.A. Dub. Lectr.
Livingstone, T. C., M.A. Lectr.
Bryce, J. C., M.A. Asst.
Buchan, Hannah A., M.A., B.Litt. Temp. Asst.

French
Boase, A. M., M.A. Ox., Ph.D. Camb. Prof.

Lecturers
Silver, R. C., M.A., L. ès L. Paris.
Anderson, N. C., M.A.
Poisson, J. R., L. ès L Grenoble.
Collas, J. P., B.A., B.Litt. Ox.
Classe, André, L. ès L. Paris Asst.
Sandmann, M., Ph D. Asst.
Scarfe, F., M.A. Asst.

Geography
Stevens, A., M.A., B.Sc Lectr.
Crowe, P. R., B.Sc. Lond. Lectr.
Huggins, K. H., B.Sc. Lond. Lectr.
Fairhurst, H., M.A. Liv. Carnegie Teaching Fellow.
Bowen, G., B.A. Asst.

Geology
Trueman, A. E., D.Sc. Lond. Prof.
Tyrell, G. W., Ph.D., D.Sc., A.R.C.S. Lectr.
Weir, J., M.A., Ph.D. Lectr.
Barrett, B. H., M.A., B.Sc. Lectr.
M'Callien, Wm. J., D.Sc. Lectr.
Currie, Ethel D., B.Sc., Ph.D. Lectr.
Leitch, D., B.Sc. Lectr.
Flett, W. R., B.Sc. Asst.
Latham, Mary H., M.A. Asst.

German
Smith, H., M.A. St. And., Ph.D. Marb. William Jacks Prof.
Clark, James M., M.A., Ph.D. Lectr.
Weir, Eleanor R., M.A. Asst.

Hebrew and Semitic Langs.
Weir, Rev. C. J. M., B.D. Edin., D.Phil. Ox. Prof.
Mauchline, J., B.D. (O.T. Lang. and Lit.) Prof.
Sutherland, D., M.A. Asst.

History, v. also Div., Law, Pol. Econ.
Browning, A., M.A. Glas. and Ox., D.Litt. Prof.
Mackie, J. D., M.C., M.A. Ox. (Scottish H.) Prof.

Lecturers
Miller, S. N., M.A. (H. and Antiq., Roman).
Lees, R. M., M.A. (British H.).
Sayles, G. O., M.A., D.Litt.
Tweeddale, Mrs. Greta C., M.A.
Pryde, G. S., M.A., Ph.D. St. And. (Scottish H.).
Henderson, G. B., M.A., Ph D. Camb.
Chrimes, S. B., M.A., Ph.D. Camb. (Const. H.).
Shaw, J. J. S., M.A., Ph.D. Asst.

Humanity, v. Classics

Italian
Grillo, Cav. E., D.Lit. Flor., LL.D. Perugia, M.A. Stevenson Prof.
MacKinven, A. D., M.A. Lectr.

Law, v. *infra*

Logic and Rhetoric
Campbell, C. A., M.A. Prof.
Lecturers
Brown, George, M.A. Edin.
Levett, Margaret J., M.A. Ox.
Haydock, G. H., M.A., B.Litt.
Cousin, D. R., B.A. Ox.

Mathematics [Prof.
MacRobert, T. M., M.A., D.Sc.
Lecturers
M'Arthur, N., M.A., B.Sc.
M'Whan, J., M.A., Ph.D. (Eng. Students).
Arthur, W., M.A. (Eng. Students).
Robb, R. A., M.A., D.Sc.
Gillespie, R. P., Ph.D. Camb., M.A., B.Sc.
Graham, T. S., Ph.D. Camb., M.A.
Hyslop, J. M., Ph.D. Camb., M.A.
Black, Margaret S., M.A. Asst.
Gourlay, N., M.A., B.Sc. Asst.

Medicine and Surgery, v. *infra*

Metallurgy, etc., v. *infra* Royal Tech. Coll.

Mining

Bryan, A. M., B.Sc. Dixon Prof.

Music

Whittaker, W. G., M.A., D.Mus. Durh., F.R.C.O. Gardiner Prof.

Thomson, R. H., B.Mus. Edin. Asst.

Naval Archit., including Marine Engin., v. also *infra* Royal Tech. Coll.

Hillhouse, P. A., D.Sc. John Elder Prof.

Evans, D. L., B.Sc. Lectr.

Philology, Comp. (*Classical*)

Pirie, J. W., M.A. Aberd. and Ox. Lectr.

Philosophy, Moral, v. also Logic and Psychol.

Franks, O. S., M.A. Ox. Prof.

Phillips, I. W., M.A. Lectr.

Lamont, W. D., D.Phil. Ox., M.A. Lectr.

Dickie, J. S., M.A., B.Sc. Lectr.

Kerr, Sheila A., B.Litt. Ox., M.A. Asst.

Philosophy, Natural

Jones, E. Taylor, D.Sc. Lond. Prof.

Houstoun, R. A., D.Sc., Ph.D. (Physical Optics) Lectr.

Cochrane, Charles, M.A., B.Sc. Lectr.

Thomson, J., M.A., D.Sc., Ph.D. Lectr.

M'Farlane, W., M.A., D.Sc. Lectr.

Physics, Applied

Alty, T., D.Sc. Liv., Ph.D. Camb., F.I.P. Cargill Prof.

Allan, G. E., D.Sc. Birm. Arnott and Thomson Demr. in Expl. Physics and Lectr. in Elec.

Green, G., M.A., D.Sc. Lectr.

Gray, R. C., M.A., D.Sc. Lectr.

Younger, A. J., M.A., B.Sc. Lectr.

Physiology

Cathcart, E. P., C.B.E., LL.D. St. And., D.Sc., M.D., F.R.S. Reg. Prof.

Watson, A. M., M.A., Ph.D. (Histology) Lectr.

Cuthbertson, D. P., D.Sc., M.D. Grieve Lectr.

Bell, G. H., B.Sc., M.B., Ch.B. Lectr. & Demr.

Wright, N. C., M.A., D.Sc. Ox., Ph.D. Camb. (Domesticated Animals) Hon. Lectr.

Knox, J. A. C., M.B., Ch.B. Asst.

Physiological Chem.

Wishart, G. M., B.Sc., M.D. Gardiner Prof.

Thomson, A. P. D., B.Sc., M.B., Ch.B. Asst.

Political Economy

Scott, W. R., M.A., Litt.D. Dub., LL.D., D.Phil. St. And., F.B.A. Prof.

Buyers, J. A., M.A. (Econ. Hist.) Lectr.

Macfie, A. L., LL.B., D.Litt. Lectr.

Cairncross, A K., Ph.D. Camb., M.A. Lectr.

Political Philosophy

White, Alex. K., M.A. Lectr.

Psychology

Pickford, R. W., M.A., Ph.D. Camb. Lectr.

Psychology, Industrial

Oakley, C. A., B.Sc., Ed.B. Lectr.

Russian

Brennan, H. G., M.A. Lond. Sir William Weir Lectr.

Social Economics

Cunnison, James, M.A. Lectr.

Spanish

Atkinson, W. C., M.A. Belf. Stevenson Prof.

Anderson, J. A., M.A. Lectr.

M'Clelland, Ivy L., M.A. Lectr.

Luzuriaga y Medina, L. Asst.

Theology, v. Divinity

Zoology

Hindle, E., M.A., Sc.D. Camb., Ph.D. Reg. Prof.
Jepps, Margaret W., M.A. Camb., D.Sc. Lectr.
Staig, R. A., M.A., Ph.D. Lectr.
Parsons, C. W., B.A. Camb. Lectr.
Miller, Agnes E., M.A. Lectr.
Lowenstein, O., Ph.D. Lectr.

Assistants

Slack, H. D., B.Sc. Lond.
Ribbands, C. R., B.A. Camb.
Robertson, J. D., B.Sc., Ph.D.

Engineering

v. also Naval Archit., Mining

Small, J., D.Sc., Ph.D. (Theory and Practice of Heat Engines) Watt Prof.
Geyer, E. W., B.Sc., Ph.D. Carnegie Teaching Fellow.
Cameron, E. R., B.Sc. Asst.

Engin., Civil and Mech.

Cook, Gilbert, D.Sc. Manc., M.I.Mech.E. Reg. Prof.
Brown, R. M., D.Sc., Ph.D., M.I.M.E. Lectr.
Keown, J. E., B.Sc., Ph.D. (Drawing and Design) Lectr.
Morrison, J. C., B.Sc., Ph.D. Lectr.
M'Gregor, W., B.Sc. Lectr.
Thom, A., D.Sc., Ph.D. Lectr.
Orr, J., B.Sc., Ph.D. Lectr.
McDonald, G. G., B.Sc. Carnegie Teaching Fellow.

Engineering, Electrical

Howe, G. W. O., D.Sc. Durh. and Adel. J. Watt Prof.
Hague, B., D.Sc. Lond., Ph.D. Lectr.
Scobie, J., B.Sc. Lectr.
Small, A. J., B.Sc., Ph.D. Lectr.

Engineering Production

Garvie, I., B.Sc. Lectr.

Law

Gibb, A. D., LL.B. Reg. Prof.
Paton, G. C. H., LL.B. Asst.

Civil Law [Lectr.

Muirhead, J. S., B.A. Ox., LL.B.

Const. Law and Hist.

Fraser, W. I. R., B.A. Ox., LL.B. Lectr.

Conveyancing

Girvan, J., LL.B. Prof.
Kay, A., LL.B. Asst.

Evidence and Procedure

M'Leish, D. A. S., LL.B. Lectr.

Internat. Law, Public, and Internat. Private Law

Nicol, R. M., LL.B. Lectr.

Jurisprudence, General

M'Intosh, H., LL.B. Lectr.

Mercantile Law

Henderson, J. J. C., O.A., B.L. Prof.
Boyd, J., LL.B. Asst.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology

Browning, C. H., LL.D. St. And., M.D., D.P.H., F.R.S. Gardiner Prof.
Kyles, W. B., M.B., Ch.B. Lectr.
Dunn, A., M.B., Ch.B. Asst.
Stuart, R. D., M.D. Aberd., D.P.H. (Roy. Inf.) Lectr.

Dermatology

McLachlan, A. D., M.D. M'Call Anderson Mem. Lectr.
Smith, J. Ferguson, M.A., M.D. Lectr.

Ear and Throat and Nose, Diseases of

Young, G., M.C., M.B., Ch.B., F.R.F.P.S. Glas. Lectr.

Harper, J., M.A., M.B., Ch.B., F.R.F.P.S. Glas. Lectr.
Syme, W. S., M.C., M.B., Ch.B., F.R.F.P.S. Glas. Asst.
Christie, J. F., M.B., Ch.B. Private Asst.

Eye, Diseases of the

Ballantyne, A. J., M.D., F.R.F.P.S. Glas. Tennent Prof.
Marshall, J., M.B., Ch.B. Asst.
Michaelson, I. C., F.R.F.P.S. Glas. Asst.
Thomson, A. M. W., M.B., Ch.B. Asst.

Forensic Medicine

Glaister, J., D.Sc., M.D. Reg. Prof.
Martin, F. W., M.D. Asst.

Infancy and Childhood, Dis. of

Fleming, G. B., M.B.E., B.A., M.D. Camb., F.R.F.P.S. Glas. (Med. Pediatrics) Samson Gemmell Prof.
Ford, F. J., M.D., Ch.B. Asst.
Graham, S. G., M.D. Tor., F.R.F.P.S. Glas. Gow Lectr.
White, M., M.A., M.B., Ch.B., F.R.F.P.S. Glas., F.R.C.S.Ed. (Surg. and Orthop.) Lectr.

Materia Medica, v. also Med., Clin.

Morris, N., D.Sc., M.D., D.P.H. Reg. Prof.
Alstead, S., M.D. Liv. Pollok Lectr.
Middleton, J. C., M.A., B.Sc., M.B., Ch.B., F.R.F.P.S. Glas. Waltonian Lectr.
Macdonald, J. B., M.B., Ch.B. Weir Asst.
Anderson, W. F., M.B., Ch.B. Asst.
Slessor, A., M.B., Ch.B. Asst.

Medical Radiology

Fulton, J. S., M.D. Ed., M.R.C.P.E., D.R. Lectr.
MacLean, A. B., M.D. Lectr.
Crawford, R. M. C., M.D. St. And., D.M.R.E. Camb. Private Asst.

Medicine

Harrington, A. W., M.D., F.R.F.P.S. Glas. Muirhead Prof.
Wright, J. H., M.D. Asst
Stevenson, E. Moira K., M.D. Ch.B. Asst.
Aitkenhead, Anne C., B.Sc., M.B., Ch.B. Asst.

Medicine, Clinical

Lecturers

Middleton, J. C., M.A., B.Sc., M.B., Ch.B., F.R.F.P.S. Glas. (also *Mat. Med.*).
Crawford, A. Muir, M.D., F.R.F.P.S. Glas.
Cruickshank, J. N., M.C., D.Sc., M.D., F.R.F.P.S. Glas., F.R.C.P.
Gracie, John, M.B., Ch.B., F.R.F.P.S. Glas.
Allan, G. A., M.D., M.R.C.P., F.R.F.P.S. Glas.
Morton, H., M.D.
Smith, David, M.D., F.R.F.P.S. Glas.
Glen, A., M.D.
Scott, A. M., M.D.

Medicine, Practice of

McNee, J. W., D.S.O., D.Sc., M.D., F.R.C.P. Reg. Prof.
Rennie, J. B., M.D. Carnegie Teaching Fellow.

Assistants

Lendrum, R. G., M.A., M.B., Ch.B.
Gaylor, J. B., M.A., B.Sc., M.B., Ch.B.
Scott, L. D. W., M.B., Ch.B.

Midwifery

Cameron, S. J., M.B., Ch.B., F.R.F.P.S. Glas., F.C.O.G. Reg. Prof.
Barr, A., M.B., Ch.B. Asst.
Armstrong, W. C., M.B., Ch.B. Asst.

Obstetrics and Gynæcology

Hendry, J., M.B.E., M.A., B.Sc., M.B., Ch.B., F.R.F.P.S. Glas. Muirhead Prof.
Hewitt, J., M.B., Ch.B. (Clin. G.) Lectr.
M'Intyre, D., M.B.E., M.D., F.R.C.S.E., F.R.F.P.S. Glas. "Samaritan" Lectr.
Anderson, D. F., M.D. Asst.
Hunter, Alison M., M.B., Ch.B. Asst.

Pathology

Dunn, J. Shaw, M.A., M.D. Prof.
Blacklock, J. W. S., M.D., F.R.F.P.S. Glas. St. Mungo-Notman Prof.
Reynolds, F. E., M.D. Edin., M.R.C.P.E., D.T.M. & H. Camb. Hon. Lectr.
Heggie, J. F., B.Sc., M.B., Ch.B. Lectr.
Niven, Janet S. F., M.D. Lectr.
Lendrum, A. C., M.A., B.Sc., M.B., Ch.B. Asst.
Marshall, Alice J., M.B., Ch.B. Lectr.
Dick, J. C., M.D. Asst.
Lyall, A., M.B., Ch.M. Asst.

Pathology of Diseases of Infancy and Childhood

Montgomery, G. L., Ph.D. St And., M.B., Ch.B. Gardiner Lectr.

Pathological Bio-Chemistry

Telfer, S. V., B.Sc., M.B., Ch.B. Lectr.
Anderson, A. B., B.Sc., Ph.D. Lond., M.R.C.S. Lectr.
Wilson, H. E. C., D.Sc., M.B., Ch.B. Lectr.

Pediatrics, v. Infancy and Childhood, Dis. of

Psychiatry (*Mental Diseases*)

MacNiven, Angus, M.B., Ch.B., D.P.M., M.R.C.P.E. Lectr.
MacDonald, J. H., M.B., Ch.B., F.R.F.P.S. Glas. (Psych. Med.) Mackintosh Lectr.

Psychological M., v. Psychiatry

Public Health

Currie, J. R., M.A. Edin. and Ox., M.D. Glas., D.P.H. Birm. Prof.
Macgregor, A. S. M., O.B.E., M.D., F.R.F.P.S. Glas., D.P.H. Camb. (Hyg.) Hon. Lectr.
Mearns, A. G., B.Sc., M.D., D.P.H. Lectr.
Mitchell, Mabel E., B.Sc., M.B., B.L. Asst.

Surgery

Young, Archibald, B.Sc., M.B., C.M., F.R.F.P.S. Glas. (to 30.9.39) Reg. Prof.
Burton, J. A. G., M.B., Ch.B., D.P.H., F.R.C S.E. St. Mungo Prof.
Mackey, W. A., M.B., Ch.B. Asst.
Orr, J. Leslie, M.B., Ch.B. Asst.
Wapshaw, H., M.B., Ch.B. Asst.
Patrick, W., M.B., Ch.B., F.R.C.S.E. St. Mungo Asst.

Surgery, Clinical

Lecturers

Young, Roy F., M.C., B.A., M.B., B.Ch. Camb., F.R.F.P.S. Glas.
McIntyre, Milne, M.B., Ch.B., F.R.F.P.S. Glas.
Renton, J. M., M.B., Ch.B., F.R.C.S.E.
Taylor, M. L., M.B., Ch.B.
Campbell, W. A., M.B., Ch.B., F.R.C S.
White, M., M.A., M.B., Ch.B., F.R.C.S.E., F.R.F.P.S. Glas.
Davidson, N. G. W., O.B.E., F.R.C.S.E.
Sewell, W. A., B.Sc., M.B., Ch.B., F.R.F.P.S. Glas.
Dunbar, J., M.B., Ch.B.
Russell, J., M.B., Ch.B., F.R.C.S.E., F.R.F.P.S. Glas.

Hutton, A. J., M.B., Ch.B.
Swanson, G. C., M.B., Ch.B.
Clark, A. M., M.A., M.B., Ch.M., F.R.F.P.S. Glas.
Stevenson, G. H., O.B.E., M.B., Ch.B., F.R.C.S.Ed.

Tuberculosis, Clinical

Wilson, J. A., M.B., Ch.B. Lectr.

Venereal Diseases

McCluskie, J. A. W., M.B., Ch.B. Lectr.
Robertson, J. G. M., M.B., Ch.B. Lectr.

Gifford Lecturer in Nat. Theol. (biennial)

1937—Prof. W. E. Hocking, LL.D.
1939—Prof. John Laird, LL.D., F.B.A.

Alexander Robertson Lecturer (Defence of the Christian Religion—not oftener than once in every 2 yrs.)

1937—Prof. E. Brunner.

Hastie Lecturer (Encouragement of Theology—held for 3 yrs.)

1937—Rev. A. M. Hunter, B.D., Ph.D.

Stevenson Lecturer (Citizenship—held for 5 yrs.)

1937—A. D. K. Owen, B.A., M.Comm.

Cramb Music Lecturer

1938—Sir Hugh Allen, K.C.V.O., Mus.Doc.

Sir William MacEwen Memorial Lecturer (biennial)

1939—Prof. G. G. Turner, F.R.C.S.

Gibson Lecturer (History of Mathematics)

.....

David Murray Lecturer

1939—Prof. F. de Zulueta.

Dalrymple Lecturer (Archæology)

1938—Ian A. Richmond, M.A.

Frazer Lecturer (Social Anthropology — Oxford, Cambridge, Glasgow, Liverpool, in rotation.)

1939—(at Cambridge).

University Extension

Joint Secy. for the Univ. to the Glasgow Univ. Extra-mural Education Committee: Stewart, D. M., C.I.E., M.A. LL.D.

ASSOCIATED COLLEGES, in which University courses are provided at Glasgow.

THE ROYAL TECHNICAL COLLEGE, v. *infra.*

THE WEST OF SCOTLAND COLLEGE OF AGRICULTURE, v. also App. III. p. 925. Principal, W. G. R. Paterson, B.Sc., N.D.A. Profs., Lectrs. and Assts.: *Agric.*, The Principal, Prof.; J. Kirkwood, B.Sc., N.D.A., N.D.D.; J. Macfarlane, B.Sc.; K. N. Russell, B.Sc., N.D.A., N.D.D., Asst.; *Agr. Bookkeeping*, J. Kirkwood; *Agr. Econ.*, A. K. Cairncross, M.A., Ph.D. Camb.; *Agr. Eng. and Surveying*, J. Malcolm, B.Sc., A.R.T.C., N.D.A.; *Agr. Law*, C. Williamson, LL.B.; *Agr. Zool.*, Prof. L. A. L. King, M.A. Camb.; Agnes A. Meikle, B.Sc., N.D.A., N.D.D.; *Bacteriol.*, J. F. Malcolm, M.Sc., Ph.D. Lond., F.A.C. Glas., N.D.A., N.D.D.; D. A. M'Kenzie, B.Sc., N.D.A., N.D.D., 2 Assts.

Bees and Bee-keeping, J. Tinsley, F.R.E.S., 2 Asst. Lectrs.; *Bot.*, Prof. K. W. Braid, M.A. Camb., B.Sc. Aberd.; W. F. Burnett, M.A., B.Sc.; Margaret Keene, B.Sc., Asst.; *Chem.*, Prof. D. N. M'Arthur, D.Sc., Ph.D., F.I.C.; E. M. Melville, M.A., B.Sc., B.Sc. (Agr.), N.D.A., A.I.C.; S. M. Bodan, B.Sc., A.I.C., Asst. Lectr.; J. C. Jack, B.Sc., Ph.D., Asst.; P. Caldwell, Analyst; C. L. Whittles, M.A., Ph.D. Camb., Soil Chemist; *Dairying*, D. M. Smillie, B.Sc., N.D.A., N.D.D.; *Dairy School*, Director, J. Kirkwood; A. B. Smart, B.Sc., N.D.A., N.D.D., Asst.; Mary Lumley, N.D.D., Asst.; J. Gardner, N.D.D., Asst.; *Hortic.*, D. V. Howells, Agr. Dip. (U.C.W.), (Supt.), W. Good, B. P. Perry, N.D.H., A. E. Livingston, A. J. A. Copeland, D. Anderson, 1 Asst.; *Plant Husbandry*, D. G. O'Brien, M.A., B.Sc., B.Sc. (Agr.), Ph.D., N.D.A., N.D.D.; S. M. Wylie, B.Sc., Ph.D., Asst.; *Poultry School*, M. S. Miller, B.Sc., N.D.A., N.D.D., M. M. Wright, N.D.D., N.D.P., M. B. F. Wilson; *Vet. Sci.*, Prof. J. R. M'Call, M.R.C.V.S. (Lectr.); J. A. Gilchrist, B.Sc., N.D.A., N.D.D., Economist; F. G. Sturrock, B.Sc., N.D.A., N.D.D. *County Work*, Director—The Principal; Deputy Director—A. F. R. Nisbet, M.A., B.Sc., Ph.D., N.D.A., N.D.D. 8 Advisory and 28 Extension staff.

GENERAL INFORMATION, v. also pp. 351 ff.

Founded by a Papal Bull in 1451, after the model of Bologna, the Univ. was reconstituted by a Charter of King James VI. of Scotland in 1577. For early history see *Yearbook*, 1929.

The LIBRARY, founded in the 15th century, contains 255,000 vols., including 300 books printed before A.D. 1500. Among its important collections are the Ewing, distinguished for the value and variety of its Bibles; the Hamilton, rich in philosophical works; and the Ferguson, containing rare books on the history of chemistry. The Hunterian MUSEUM, founded in 1783, contains most valuable MSS. and early printed books and pictures and important collections of coins, anatomical preparations, zoological and mineral specimens, etc. Large new departments with spacious LABORATORIES have been erected for Engin., Bot., Nat. Philos., Chem., Physiol., Anat., Path., Mat. Med., Forensic Med., Pub. Health, and Zoology. There are BOTANICAL GARDENS and an OBSERVATORY. As Glasgow stands at the centre of the shipbuilding, engineering, mining, and industrial area of Scotland, it offers unique opportunities for technical training. Three large general HOSPLS. are available for clinics, besides special institutions (including Consumption Sanatoria).

FACULTIES. (1) Arts, (2) Science, (3) Medicine, (4) Law, (5) Divinity, (6) Engineering. Depts. of Applied Science—Engineering (Civ., Elec., Mech. Mining, Naval Archit., Chem.), Applied Chem., Agric., Architecture, Public Health, Pharmacy. Deans: (1) Profs. J. D. Mackie (Scot. Hist.), (2) J. Walton (Bot.), (3) J. S. Dunn (Path.), (4) A. D. Gibb (Law), (5) Rev. G. H. C. Macgregor (Biblical Crit.), (6) G. W. O. Howe (Elec. Eng.).

ADMISSION, v. Appendix I.

DEGREES, ETC., v. pp. 352 ff. Applications by Overseas students for remission of part of the class attendance for B.Sc. in branches other than Engineering will be considered sympathetically. *Diploma* in Education, 1 yr. course, for graduates (the first yr. of the Ed.B. course); D.P.H. (1 yr. course) for legally qualified med. practitioners. *Certificates* of Proficiency in Engineering Science and in Mining Engin., 3 yrs.' courses, of which first yr. may be taken in Roy. Tech. Coll.; no prelim. examn.

The list of extra-academical teachers whose courses in certain subjects are recognized as qualifying *pro tanto* for graduation includes several resident

outside the United Kingdom, namely, in Cape Town (in Nat. Philos., Chem., Bot., Zool.), Grahamstown (Physics, Chem., Bot., Zool.), Johannesburg (Zool. and Chem.), and Stellenbosch (Bot., Chem., Physics).

For detailed information regarding POSTGRADUATE study and research in any Faculty, application should be made to the Dean. A Post-graduate Medical Assocn. organizes demonstrations for Med. Practitioners; fee for series, Nov. to May, 3 gs.; programme obtainable from the Secy., P.-G. Med. Assocn., Dr. James Carslaw, 9 Woodside Terrace, Glasgow, C.3.

FEES (v. also Carnegie Trust, p. 355). Matriculation, 2½ gs. p.a. Inclusive tuition fees for M.A. (Ord.), 45 gs., (Hons.), 60 gs.; LL.B., 40 gs.; B.L., 30 gs.; B.Sc. (Pure or Applied Science), 90 gs.; M.B., Ch.B., about £250 for 5 yrs. Combined M.A. and B.Sc., 112½ gs. Examination: M.A., 7½ gs.; B.D., 7½ gs.; LL.B., 9 gs.; B.L., 7½ gs.; B.Sc., 9 gs.; M.B., Ch.B., 33 gs.; Doctorates, 10 to 20 gs.

SCHOLARSHIPS. Graduates (v. also pp. 354-55): about 76 of from £30 to £280 p.a., most of them open only to graduates of Glas. There are also 5 Foundations for res. scholarships and studentships.

For undergraduates there are 480, varying in value from £10 to £50 or more p.a., chiefly in the Faculty of Arts, in addition to Bursaries of from £5 to £25, awarded by the Provincial Committee for the training of teachers.

Travelling for study or research is encouraged by: Bryce Mathematical Fellowship (£280 p.a. for 4 yrs.), Faulds Fellowship (£200), J. R. K. Law Scholarship (£100 p.a. for 2 yrs.) for Applied Science tenable at an approved *Overseas University* or other scientific institution in *Canada*, *U.S.A.*, or *France*.

RESIDENCE. Two Halls of Residence for men—the Maclay Hall (Warden: F. M. Urquhart, LL.B.) and the MacBrayne Hall (Warden: E. W. Walls, M.B.); and one for women—Queen Margaret Hall (Warden: Miss M. B. C. Kirkpatrick) with Robertson Annexe. The average cost of residence in the Halls is £17: 10s. per term, with a reduction for those resident for three terms. Lodgings or board with private families with use of 2 rooms, generally obtainable in neighbourhood of the Univ., for from 35s. to 50s. per week. A few students' hostels or settlements, of limited accommodation, where the charges are lower, are run by private committees or bodies of students and graduates.

THE APPOINTMENTS COMMITTEE (for men and women). Secretary (J. Thomson, M.A., B.Sc., Ph.D.), Office of Adviser of Studies, The University.

LOCAL ADVISER TO INDIAN STUDENTS. R. M. Brown, D.Sc., Ph.D., M.I.M.E.

SOCIETIES. Glasgow Univ. Club, London. Hon. Secs.—J. M'Clure, M.D., F.R.C.S., 62 Harley House, London, N.W.1; H. L. P. Myles, LL.B., 27 Abingdon St., London, S.W.1. Glasgow Univ. Women Graduates' London Assn. Hon. Sec.—Miss L. Buist, M.A., 31 Birchington Road, Crouch End, London, N.8.

UNIVERSITY EXTENSION. An Extra-mural Education Committee, equally representative of the Univ. and working-class organizations, is prepared to supply classes, short courses, and single lectures to groups of students in Glasgow and the West of Scotland, so far as its resources will permit; a compendium of classes and lectures for the session is obtainable from the Organizing Secy., W.E.A., 177 Hill Street, Garnethill, Glasgow, C.3. Fortnightly and occasional free public lectures by profs. and others during the winter session.

PUBLICATIONS. *Calendar*; *Glasgow Univ. Magazine*, weekly during winter session; *Examn. Papers*, Prelim. and Degree, 6d. per set; *Annual*

Handbook for matriculated students; *Handbook* for Overseas students and graduates; *History of the University of Glasgow* (Coutts); *Roll of Graduates* (1726–1896) (Addison); *Matriculation Albums* (Addison).

THE YEAR 1937–38

BENEFACTIONS AND GIFTS. The late Dr. Robert Fullerton, Skelmorlie, £2000 for a prize in Fac. of Medicine. The late John Fraser Orr, £500 for the Library. The late Mrs. S. C. Wilson, Cambuslang, for research in Scottish History, the copyright and all interest on her husband's book entitled *A Contribution to the History of Lanarkshire*. The late Mrs. Helena H. Waddell, the residue of her estate (estim. £7500), for the study and teaching of Sociology. Prof. Smith, £250, to endow the Agnes Smith Memorial Medal in German. M. and Mme. Pitoy, £50, to found a prize in Oral French. Mrs. Butler, Edinburgh, £100 as a contribution to New Reading-Room. Lord Maclay, amplifying apparatus for University Chapel. Mr. G. W. Macfarlane, £100 for continuation of lectures on History and Practice of Church Music. Bellahouston Trustees, £100 to Library.

NEW BUILDINGS. Work continued on New Chemistry Institute. Gardiner Institute of Medicine completed and opened. Work begun on New Observatory and New Reading-Room for students.

PUBLIC LECTURES. Mr. W. E. Thirkettle, "The Craftsmanship of the Printer"; Mr. H. Adam Crawford, "The Craftsmanship of the Painter"; Mr. Benno Scholtz, "The Craftsmanship of the Sculptor"; Mr. William Henry, "The Craftsmanship of Stage Decor"; Mr. Ian Fleming, "The Craftsmanship of the Etcher"; Mr. Gordon Gildard, "The Art of Radio Presentation."

RETIREMENTS. Prof. W. J. Goudie (Heat Eng.); Prof. J. Loudon (Acctcy.)

RESIGNATION. Prof. W. G. Whittaker (Music).

DEATH. Miss M. M. Ferguson (French).

HONORARY DEGREES. *D.D.*—F. A. Iremonger; Prof. Adolphe Lods; J. A. C. Mackellar; Hector MacLean; Prof. O. S. Rankin; J. S. Whale; Prof. F. J. Heiler. *LL.D.*—Hon. Lord Fleming; Sir John Martin-Harvey; Em. Prof. G. G. Henderson; Prof. J. H. Hollander; W. J. Jongmans; Em. Prof. Max Planck; Em. Prof. W. B. Stevenson; Sir John Stewart; Prof. M. J. Stewart; Prof. C. T. R. Wilson.

STUDENTS. Full-time: 4393 (men, 3374; women, 1019). Part-time: 402 (men, 383; women, 19).

DEGREES. B.D., 14; M.A., 432; D.Litt., 2; Ed.B., 7; B.L., 36; LL.B., 34; B.Sc., 182; D.Sc., 3; M.B., Ch.B., 174; M.D., 26; Ch.M., 1; Ph.D., 11.

THE ROYAL TECHNICAL COLLEGE, GLASGOW

Founded 1886

[Affiliated to the University of Glasgow]

CHAIRMAN OF THE BOARD OF GOVERNORS—ROBERT ROBERTSON, D.L., B.Sc., LL.D., M.Inst.C.E.

DIRECTOR—Sir ARTHUR J. C. HUDDLESTON, C.M.G., O.B.E., M.A. Camb.

SECRETARY—A. MACKAY, F.C.I.S.

TREASURER—J. S. CROFT.

TUTOR AND LIBRARIAN—W. G. BURRELL, M.A.

Telephone: Glasgow, Bell 2501-3.

TEACHING STAFF

Architecture and Building

Hughes, T. H., F.R.I.B.A., F.S.I., A.R.C.A. Prof. and Dir. of Arch. Studies.
Smith, Wm. J., F.R.I.B.A. Lectr.
MacLean, A., B.A. Manc., A.R.I.B.A. Lectr.
Cordiner, T. S., A.R.I.B.A. Asst. Lectr.

Botany and Bacteriology

Lloyd, Blodwen, M.Sc. Wales, Ph.D. Lectr.
Boyes, J., B.Sc. Asst. Lectr.

Chemistry

Wilson, F. J., D.Sc. Edin., Ph.D. Leip. Freeland Prof.

Lecturers

Hay, Prof. R. (Metall. C.).
Sutherland, Maggie M. J., D.Sc., F.I.C. (Inorg. C.).
Cranston, J. A., D.Sc., F.I.C. (Phys. C.).
Hopper, I. V., B.Sc. Lond., Ph.D., A.R.C.S.I., F.I.C. (Org. C.).
Crawford, A. B., B.Sc., Ph.D., A.R.T.C., A.I.C. (Analyt. C.).
Duncan, J. G., F.I.C., A.R.T.C.
M'Lean, J., B.Sc., Ph.D.

Demonstrators

Anderson, H. G. A., B.Sc., A.R.T.C.
Muir, G. D., B.Sc., Ph.D.
Good, W., D.Sc. Zürich, A.R.T.C.
Mitchell, T. J., A.R.T.C.
Syme, A. C., B.Sc., A.R.T.C.
Orr, A., B.Sc., A.R.T.C.
McAllan, W., B.Sc.
Urie, A., B.Sc., A.R.T.C.
Wilson, D. M., B.Sc.
Wright, W. G. D., A.R.T.C.
McKinlay, T. S., B.Sc.
Pennie, A. M., B.Sc., A.R.T.C.
Roy, A. R., B.Sc., A.R.T.C.

Chemistry, Technical

Cumming, W. M., D.Sc. Young Prof.
Cruikshanks, G. S., Ph.D. Leip. Lectr.
Rumford, F., B.Sc. Lond., F.I.C. Lectr.
Buchanan, Walter J., A.R.T.C. Lectr.
Lever, D., B.Sc., Ph.D., A.R.T.C., F.I.C. (Sugar Manuf.) Lectr.

Colour Chemistry and Dyeing

Steven, A. B., B.Sc. Lond. Lectr.

Engineering, Civil and Mechanical, and Applied Mechanics

Kerr, Wm., Ph.D., A.R.T.C. Prof.
Sinclair, J. H., M.Sc. Vict., B.Eng. Liv. (Eng. Design) Chief Lectr.
Hunter, W., B.Sc. Lond., Ph.D., A.R.T.C. (Civil E.) Chief Lectr.
Ramsay, J., B.Sc. Lond. (App. Mechs.) Chief Lectr.
Sneeden, O., B.Sc., Ph.D. (Heat Eng.) Chief Lectr.
Smith, J., B.Sc. Lectr.
Caldwell, P. S., Ph.D., A.R.T.C. Lectr.
M'Broom, H. L., B.Sc., Ph.D., A.R.T.C. Lectr.
Moir, C. M., B.Sc. Lond., Ph.D. Lectr.
Scott, A. W., B.Sc., Ph.D., A.R.T.C. Lectr.
Caldwell, J., B.Sc., A.R.T.C. Lectr.
Thomson, J. M., B.Sc. (San. Eng.) Lectr.

Asst. Lectrs. and Demrs.

Garrick, J. A., B.Sc.
Russell, R., B.Sc., Ph.D., Dipl. R.T.C.
Russell, R.
Shannon, J. E., Ph.D., A.R.T.C.
Laird, A. M., B.Sc., A.R.T.C.
Thomson, A. S. T., Ph.D., A.R.T.C.
Smith, R., B.Sc., A.R.T.C.
Arnold, R. N., M.S. Ill., Ph.D. Sheff., B.Sc., A.R.T.C.
Tivey, J. H., B.Sc. Research Asst.

Engineering, Electrical

Smith, S. Parker, D.Sc. Durh. Prof.
Meade, F. E., M.I.E.E. Chief Lectr.

Asst. Lectrs. and Demrs.

Farrell, J. F. E., B.Sc.
Shearer, G., B.Sc.
Cowan, J. A., A.R.T.C.
Bradshaw, E., M.Sc. Tech. Manc.
Fairley, E. S., B.Sc., A.R.T.C.
Tait, J. S., B.Sc. Lond., Dipl. R.T.C.
Paterson, W., Dipl. R.T.C.
Scorgie, G. C., B.Sc.
Schaffer, P., B.Sc. Research Asst.

Engineering, Mining

Bryan, A. M., B.Sc., M.I.M.E. Prof.
Stevenson, J., B.Sc. Lectr.
Miller, Wm., B.Sc. Lectr.
Hibberd, G., Ph.D., A.R.T.C. Demr.
Clarke, D. A., B.Sc., A.R.T.C. Research Asst.

Geology, Economic

Edwards, E. J., M.Sc. Manc. and Leeds Lectr.

Mathematics

Street, R. O., M.A. Camb., M.Sc. Liv., F.R.A.S. Prof.
Paul, J. I., M.A., B.Sc. Lectr.
Geddes, S., M.A., B.Sc. Lectr.
Brown, L. M., M.Sc. Brist. Lectr.
Martin, D., M.A., B.Sc. Lectr.

Metallurgy

Hay, R., B.Sc., Ph.D., F.I.C. Prof.
Howat, D. D., B.Sc., Ph.D. Lectr.
White, J., B.Sc., Ph.D. Lectr.
McIntosh, A. B., B.Sc., Ph.D., A.R.T.C. Lectr.
Carter, P. T., B.Sc. Durh. Asst. Lectr. and Demr.
McMillan, Q. C., A.R.T.C. Research Asst.

Natural Philosophy

M'Quistan, D. B., M.A., B.Sc. Freeland Prof.
Rankin, J. S., B.Sc., Ph.D., A.R.T.C. Lectr.

Asst. Lectrs. and Demrs.
Symon, F. J., B.Sc., Ph.D.
Macaulay, J. M., B.Sc., Ph.D., A.R.T.C.
McLaren, A. S., B.Sc.
Sillitto, A. G., M.A.
Milne, E. R. M., M.A. Edin.
MacNeill, A. C. M., M.A., B.Sc.

Naval Architecture

Gray, W. M., B.Sc. Lectr.

Pharmacy

Todd, J. P., Ph.D., Ph.C. Prof.
Schorn, E. J., A.I.C., Ph.C. (Pharm. Chem. and Pharmaceutics) Lectr.
Rattray, G., Ph.C. (Pharmacognosy) Lectr.
Tompsett, S. L., B.Sc. Lond., Ph.D. (Biochem. Analysis) Lectr.
Murray, I., M.D., F.R.F.P.S. Glas. (Physiol.) Lectr.
Mactaggart, Cecilia I., M.A., B.Sc. (Zool.) Lectr.
Milne, G. R., Ph.C. Asst. Lectr.
Gemmell, D. H. O., Ph.C. Demr.
Hughes, W. M., B.Sc., Ph.C. Demr.

Sugar Manufacture, v. Chemistry, Tech.

Textile Manufacture

Windle, J., F.T.I. Supt. and Lectr.
Stanworth, T. D. Asst. Lectr.
Taylor, E. G., B.Sc.Tech. Manc., A.M.C.T. Asst. Lectr.

GENERAL INFORMATION

Anderson's College, founded in 1796, the College of Science and Arts (1823, the first "Mechanics' Institution"), and the Atkinson Institution (1861) were amalgamated in 1886 under the title of the Glasgow and West of Scotland Technical College, which was changed in Feb. 1912 to the Royal Technical College. The College was affiliated to the Univ. of Glasgow in March 1913.

The College building, comprising over 7 acres of floor space, cost, with equipment, £400,000. Qualifying courses are provided in the subjects named above for Degrees of the Univ. in Engin., Applied Chem., Pharmacy and Archit., and for the Diploma of the College in Civil, Mech., Elect., Chemical and Mining Engin., Naval Archit., Chem., Sugar Technol. (Chem.), Sugar Technol.(Engin.), Dyeing, Metallurgy, Building and Textile Manufacture. There are also Departments of Navign. and Bakery, as well as numerous evening classes in other subjects, mainly technological. The courses for the Diploma cover 3 yrs.; for the Associateship in any of the Diploma subjects, attendance during 4 yrs. is required. The evening lecturers are not included in the above lists; some of their work is, however, of university and even post-graduate standard. Much research work, for the prosecution of which a development fund of about £100,000 has been raised, is carried on at the College. The Andersonian Library, so named to commemorate the founder of the College, Prof. John Anderson, includes the library formed by him and the James Young collection of early alchemical, metallurgical, and chemical books.

The Glasgow School of Architecture is maintained by the College and the Glasgow School of Art working in co-operation through a Joint Committee under whose authority its Diplomas (5 yrs.' course) are issued.

The College has an athletic ground, and within the College buildings a well-equipped gymnasium.

FEES for tuition: diploma, 25 gs. p.a.; degree, 90 gs. for course.

PUBLICATIONS. *Calendar; Annual Report; Research Journal.*

THE YEAR 1937–38

BENEFACTIONS. Bellahouston Trustees, £1000. Carnegie Trust, £1000, towards endowment of Library. Miss M. H. Cunningham, £1000.

RETIREMENT. Prof. James Muir (Nat. Phil.).

RESEARCH JOURNAL. The fourteenth number was issued, containing 17 papers in Natural Philos., Tech. Chemistry, Metallurgy, Mechanics, Civil Eng., Mech. Engin., Elect. Engin., Mining Engin. and Pharmacy.

UNIVERSITY EXTENSION. 1990 part-time students of 21 years of age or over were in organized classes. 406 tickets were issued for the courses in Astronomy.

STUDENTS. Full-time: preparing for a first Degree or Diploma, 472, undertaking advanced work, 26. Part-time: preparing for a first Degree or Diploma, 337; undertaking advanced work, 22; occasional students, 2135; taking courses not of a Univ. standard, 827.

DEGREES OBTAINED. Ph.D., 3; B.Sc. in Applied Science, 28; B.Sc. Lond., 7.

UNIVERSITY OF ST. ANDREWS

Founded 1411

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—The Earl BALDWIN OF BEWDLEY, K.G., P.C., M.A. Camb., D.C.L. Ox. and Durh., LL.D.

VICE-CHANCELLOR AND PRINCIPAL OF THE UNIVERSITY AND OF THE UNITED COLLEGE—Sir JAMES COLQUHOUN IRVINE, C.B.E., D.C.L. Durh. and Ox., LL.D. Edin. and Glas., D.Sc. St. And., Liv. and Princet., Sc.D. Camb., Yale and Penn., Ph.D. Leip., F.R.S.

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—Air Vice-Marshal Sir DAVID MUNRO, K.C.B., C.I.E., M.B., Ch.B. Edin., F.R.C.S.Ed., M.A.

SECRETARY AND REGISTRAR—ANDREW BENNETT, LL.D.

LIBRARIAN—GEORGE H. BUSHNELL.

PRINCIPAL OF ST. MARY'S COLLEGE—Rev. J. H. MILLER, C.B.E., T.D , M.A. Glas., D.D. Edin.

PRINCIPAL OF UNIVERSITY COLLEGE, DUNDEE—.....

Telephone : St. Andrews 35.

TEACHING STAFF

Anatomy

Waterston, D., M.A., M.D., C.M. Edin. Bute Prof.
Mulligan, J. H., M.B., Ch.B. Aberd. (Regional A.) Lectr.
Mitchell, Lt.-Col. T. J., D.S.O., M.D., Ch.M. Lectr.
Kidston, Margaret H., B.Sc. Glas. Asst.
Dow, D. R., M.D., F.R.C.P.E., D.P.H. Prof.*
Robertson, Bruce Smith, M.B., Ch.B. Lectr.*
Skae, F. M. T., M.D., C.M. Edin. Asst.

Biochemistry v. Physiology

Biology, v. Bot. and Zool.

Botany

Graham, R. J. D., M.A., D.Sc. Prof.†
Smith, Edith P., B.A. Ox., Ph.D. Edin., F.L.S. Lectr.*
Macdonald, J. A., B.Sc., Ph.D. Edin. Lectr.
Taylor, R. A., B.Sc., Ph.D. Carnegie Teaching Fellow & Asst.*
Burnett, Jeanette, B.Sc. Edin. Demr.

Chemistry

Read, J., M.A. Camb., B.Sc. Lond., Ph.D. Zür., F.R.S. (Dir. of Chem. Res. Lab.) Prof.
Steele, Ettie S., M.A., B.Sc., Ph.D. Lectr. & Asst.
Robertson, G. J., M.A., Ph.D., D.Sc. Lectr.
Macdonald, J. Y., M.A. Ox., Ph.D. Lond. Lectr.
Dewar, J., B.Sc., Ph.D. Lectr.

* At Dundee. † At St. Andrews and Dundee.

Wynne-Jones, W. F. K., B.Sc. Wales and Ox., D.Sc. Wales Prof.*
Ross, J. D. M'B., M.B.E., M.A., D.Sc. Edin. (Phys. C.) James White Lectr. & Asst.*
Roger, R., B.Sc., Ph.D. Lectr.*
Smith, Isobel A., M.A., Ph.D., D.Sc. Lectr. and Asst.*
Luis, Ethel M., B.Sc., Ph.D. Carnegie Teaching Fellow and Demr.*

Classics

Rose, H. J., M.A. Ox. (Gk.) Prof.
Tate, J., M.A., Litt.D. Dub. (Gk.) Lectr.
Henry, R. M., M.A. R.U.I., Litt.D. Dub. (Latin) Prof.
Laidlaw, W. A., M.A., Litt.D. Dub. (Latin) Lectr.
Mitford, T. B., M.A. Ox.(Latin) Lectr.
Dall, Mrs. A., M.A., Ph.D. Jr. Asst.
Lorimer, W. L., M.A. Ox. (Latin) Reader.*

Dentistry, v. *infra*

Divinity

Duncan, G. S., O.B.E., M.A., D.D. Edin. (and Bibl. Crit.) Prof.
Baxter, J. H., M.A., D.D. Glas., D.Litt. (Eccles. Hist.) Prof.
Dickie, Rev. E. P., M.C., B.A. Ox., M.A., B.D. Edin. Prof.
Baillie, Rev. D. M., M.A., D.D. (Systematic Theol.) Prof.
Forrester, Rev. W. R., M.C., M.A., B.D. Edin. (Practical Theol. and Christian Ethics) Prof.

Economics

Nisbet, J. W., M.A., LL.B. Glas. Lectr.
Mitchell, A. B., M.A. Glas. Asst.
M'Arthur, Margaret M., M.A., LL.B. Glas. Carnegie Teaching Fellow and Asst.

Education

M'Clelland, W. W., M.A., B.Sc., B.Ed. Edin. Bell Prof.
Snodgrass, N. S., M.A. Glas. (Admin. of Schs., etc.) Lectr.†

*Engineering, Civil and Mechanical**

Fulton, A. R., D.Sc. Prof.*
Hay, J. M., B.Sc. Glas. (Mech. E. and Machine Design) Carnegie Teaching Fellow & Lectr.*
Steel, G. S., B.Sc. Lond., Ph.D. (Civ. E. and Struct. Design) Lectr.*
Hall, A. P., B.Sc. Asst.*

*Engineering, Electrical**

Mackay, W. M., M.C., B.Sc. Glas. Lectr.*

English Lang. and Lit.

Webster, A. Blyth, M.A. Edin., LL.D. Calif. (E. Lit.) Berry Prof.
Clyde, W. McC., M.A., Ph.D. Lectr.*
Oakden, J. P., M.A., Ph.D. Manc. Lectr.
Falconer, A. F., M.A. Glas., B.A., B.Litt. Ox. Lectr.
Walker, W. A., M.A. Edin. Asst.*

French Lang. and Lit.†

Lewis, C. B., M.A., Litt.D. Camb., L. ès L. Paris, Ph.D. Breslau Reader.†
Stewart, W. M'C., M.A. Dub. Lectr.†
Dickinson, Gladys, B.A. Lond., L. ès L. Lyon Asst.†
Mackenzie, F., M.A. N.Z. Asst.†

Geography†

Cumming, G. A., B.Sc., Ph.D. Lectr.†
Scott, J. F., B.Sc., Ph.D. Glas. Asst.†
Drever, H. I., B.Sc. Edin. Asst.†

* At Dundee. † At St. Andrews and Dundee.

Geology†

Innes, D. E., M.C., M.A. Prof.†
Cumming, G. A., B.Sc., Ph.D. Lectr.†
Scott, J. F., B.Sc., Ph.D. Glas. Asst.†
Drever, H. I., B.Sc. Edin. Asst.†

German†

Hayens, K. C., M.A., D.Litt. Glas. Reader.†
Carr, C. T., M.A. Manc. Lectr.†
Wardale, W. L., M.A. Manc. Carnegie Teaching Fellow & Asst.
Brill, E. V. K., M.A. Asst.†

Hebrew and Oriental Langs.

Honeyman, A. M., B.D. Edin., Ph.D. Chic., M.A., B.Litt. Prof.

History, Mediæval

Cant, R. G., M.A. Lectr.

History, Modern

Williams, J. W., M.A., B.Litt. Ox. Prof.
Ketelbey, Doris M., M.A. Birm. Asst.

History, Modern, American and Colonial

Simpson, Alan, B.A. Ox. Lectr.

Italian

..... Lectr.

Law, Scots

Allison, J., C.B.E., LL.B. Edin., M.A. Lectr.*

Law, Conveyancing

Carlton, H. J., LL.B. Edin., M.A. Lectr.*

Mathematics, Pure and Applied

Turnbull, H. W., M.A. Camb. and Ox., F.R.S. Reg. Prof.
Copson, E. T., M.A. Ox., D.Sc. Edin. Prof.*
Rutherford, D. E., Dr.Math. Amsterdam, M.A., B.Sc. Lectr.
Timms, G., B.Sc. Leeds, Ph.D. Camb. Asst.
Ledermann, W., Ph.D. Asst.
Coulson, C. A., M.A., Ph.D. Camb. Lectr.*
Faulkner, T. E., M.A. Camb. Asst.*
Cossar, J., M.A. Edin. and Camb., Ph.D. Camb. Asst.

Medicine and Surgery, v. *infra*

Music

Sawyer, F., B.Mus. Durh., M.A. Lectr.

Natural History, v. Bot. & Zool.

Philosophy

Wright, J. N., M.A. Durh. (Logic and Metaphysics) Prof.
Oeser, A. O., M.Sc. S.A., Dr.Phil. Marburg, Ph.D. Camb. (and Exper. Psychol.) Lectr.
Smith, B. B., M.A. Camb. Asst.
Stedman, R. E., M.A. Br. Col., Ph.D. Edin. Lectr.*
McCracken, D. J., M.A., Ph.D. Belf. Lectr.
Henderson, G. P., M.A. Asst.

Philosophy, Moral

Knox, T. M., M.A. Ox. Prof.

Physics

Allen, H. S., M.A. Camb., D.Sc. Lond., F.I.P., F.R.S. (Dir., Phys. Res. Lab.) Prof.
Peddie, W., D.Sc. Edin. Harris Prof.*
Jack, D., M.A., B.Sc. Edin., Ph.D. Lectr.
Arnot, F. L., B.Sc. Syd., Ph.D. Camb. Lectr.
Taylor, A. M., M.A., Ph.D. Camb. Lectr.
Forrest, J., M.A., B.Sc. Glas., D.Sc. Lectr.*

* At Dundee. † At St. Andrews and Dundee.

Smith, Winifred J., B.Sc., Ph.D. Asst.*
Lawson, W. D., B.Sc. Asst.*

Physiology
Herring, P. T., M.D. Edin. Chandos Prof.
Hynd, Alex., M.A., D.Sc. Lectr.
Weston, F. M. Asst.
Mitford, Mrs. M. T. C., M.B., Ch.B. Asst.
Garry, R. C., D.Sc., M.B., Ch.B. Glas. Prof.*
Davidson, J. N., B.Sc., M.B., Ch.B. Edin. (Biochem.) Lectr.*

Political Science
Brown, J. M., M.A. Glas. Lectr.

Psychology, v. Philosophy

Theology, v. Divinity

Zoology
Thompson, Sir D'Arcy W., C.B., Sc.D. Dub., M.A., D.Litt. Camb., D.Sc. Witw., LL.D. Aberd. and Edin., F.R.S. Prof.
Sutherland, Christina H., M.A., B.Sc. Aberd. Asst.
Fleming, Katherine, B.Sc. Edin. Asst.
Peacock, A. D., D.Sc. Durh. Prof.*
Sanderson, Ann R., B.Sc., Ph.D. Carnegie Teaching Fellow & Asst.*
Waterhouse, F. L., M.Sc. Manc. Asst.*

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Mills, A., M.D., M.R.C.P. Ed. Lectr.*
3 Instrs.

Bacteriology
Tulloch, W. J., O.B.E., M.D., D.P.H. Prof.*
Stiven, David, Ph.D., D.Sc. Lectr.*
Robertson, G. H., M.B, Ch.B. Asst.*

Diseases of Children [Lectr.*
Alexander, Prof. R. C. (v. Surg.)
Thomson, J., M.B., Ch.B., F.R.C.S.Ed. Lectr.*
..... Clin. Tutor.*

Diseases, Mental
Bell, A. A., M.B., Ch.B. Glas. Lectr.*

Diseases, Throat, Nose, and Ear
Mathers, R. P., M.D. Edin., D.P.H. Lectr.*
Gibson, M. J., M.B., Ch.B. Ed., F.R.C.S. Ed. Clin. Tutor.*
Henderson, G., M.B., Ch.B. Clin. Tutor.*

Diseases, Skin [Lectr.*
Kinnear, J., M.D., M.R.C.P. Ed.

Fevers
Burgess, W. L., M.D., D.T.M. and H., M.R.C.P. Ed., D.P.H. Reader.*
Davidson, W. A., M.B., Ch.B. Asst.*
Climie, H., M.B., Ch.B., D.P.H. Asst.*

Forensic Medicine
Dorward, W. F., B.Sc., M.B., Ch.B. Lectr.*

Genetics
Smith, Edith P., B A. Ox., Ph.D. Edin. Instr.*

Gynæcology
..... Prof.*
Fairlie, Margaret, M.B., Ch.B. Clin. Lectr.*
Chisholm, A. E., M.B., Ch.B., F.R.C.S.Ed. Clin. Tutor.*

* At Dundee.

Herring, Agnes J., B.Sc., M.B., Ch.B. Clin. Tutor and Asst.*

Industrial Hygiene

Currie, A. N., M.A., D.Sc., M.B., Ch.B. Glas. Instr.*

Materia Medica

Charteris, F. J., M.D. Glas. Prof.*
Ames, Dorothy H. M., B.Sc., M.D., D.P.H. Asst.*

Medicine

Patrick, Adam, M.A., M.D., Ch.B. Glas., F.R.C.P., F.R.F.P.S. Glas. Prof.*
Clark, J. G., M.D. Asst.*

*Medicine, Clinical**

Charteris, Prof. F. J. Lectr.*
Patrick, Prof. A. Lectr.*
Milne, F. M., M.A., B Sc., M.B., Ch.B., D.P.H. Lectr.*
Stalker, J. M., M.D. Lectr.*
Morgan, J. McI., M.C., M.D. Edin., F.R.C.P.Ed., D.P.H. Camb. Lectr.*

Tutors

Macklin, A. H., O.B.E., M.C., M.D. Manc.*
Clark, J. G., M.D.*
Kirkland, A. A., M.B., Ch.B. Glas.*
M'Gillivray, D. M., M.B., Ch.B., D.P..H

Midwifery, v. Gynæcology

Ophthalmology

Moodie, A. R., M.A., M.D., F.R.C.S.Ed. Lectr. and Clin. Lectr.*
MacGillivray, A. M., M.D., D.O.M.S. Clin. Lectr.*
Scott, A. A. B., M.D. Tutor.*

Pathology

Cappell, D. F., M.D., Glas. Prof.*
Tudhope, G. R., M.B., Ch.B., Ph.D., D.P.H. Lectr. & Asst.*
Hutchison, H. E., M.B., Ch.B. Glas. Clin. Lectr.*

Public Health

Burgess, W. L. (also Fevers) Reader.*
Scott-Dickson, Margaret, M.B., Ch.B. Edin., D.P.H. Asst.*

Radiology and Elec. Therap.

Milln, G. H. S., M.B., Ch.B. Lectr.*

Surgery

Alexander, R. C., M.A., M.B., Ch.B., F.R.C.S.Ed. Prof.*
Campbell, W. G., M.B., Ch.B., F.R.C.S.Eng., L.D.S. Asst.*

*Surgery, Clinical**

Alexander, Prof. R. C. Lectr.
Brown, F. R., M.B., Ch.B., F.R.C.S.Ed. Lectr.
Melville, R. S., M.B., Ch.B., F.R.C.S.Ed. Lectr.

Tutors *

Robb, J. J., M.B., Ch.B. Edin., F.R.C.S.Ed.
Campbell, W. G. (also Surg.).
Sturrock, G. M., M.B., Ch.B. Edin. F.R.C.S.Ed.

Tuberculosis

Hunter, J. H., M.B., Ch.B., D.P.H. Instr.*

Venereal Diseases

Keay, D. M., M.B., Ch.B., D.P.H. Instr.*

Dentistry

Dental Surgery

Campbell, H. G., L.R.C.P., L.R.C.S.Ed., L.D.S. Prof.*

Dental Bacteriology

Cassaday, E. E., M.B., Ch.B. Edin., D.P.H., L.D.S. Lectr.*

Dental Histology

Anderson, D. L., L.D.S. Lectr.*

* At Dundee.

Dental Mechanics

Bruce, J., L.D.S. Lectr.*
Hutcheson, J. Tech. Instr.*

Dental Metallurgy

Whyte, R., L.D.S. Lectr.*

Dental Materia Medica

Fraser, W. C., L.R.C.P., L.R.C.S. Ed., L.D.S. Lectr.*

Dental Surgery and Pathology and Dental Jurisprudence

Tattersall, W. R., L.D.S. Lectr.*

Operative Dental Surgery

Petrie, J. M., L.D.S. Lectr.*

Orthodontics

Campbell, W. G., M.B., Ch.B., L.D.S., D.D.S. Lectr.*
Whyte, R., L.D.S. (Dental Diagnosis) Clin. Tutor.
Johnston, J. M., L.D.S. (Oper. Technique) Clin. Tutor.*

Andrew Lang Lecturer

1938–39, Prof. J. R. R. Tolkein (Oxford).

Gifford Lecturer in Nat. Theol.

1938–39, Dr. J. Bidez.

* At Dundee.

GENERAL INFORMATION, v. also pp. 351 ff.

The University was founded in 1411. In 1747 St. Salvator's (1450) and St. Leonard's (1512) Colleges were united under the name "United College of St. Salvator and St. Leonard." St. Mary's College (1537) has, since 1579, been restricted to the teaching of Theology. University College, Dundee (1881), was affiliated to and made to form part of the University in 1897.

LIBRARY: 290,000 printed vols. (some of 15th and 16th centuries). MSS. include fine Persian specimens and large folio Antiphonarium. College Library at Dundee. MUSEUMS at St. Andrews—Anat., Anthrop., Ethnol., Geol., Mineral., Nat. Hist.; at Dundee—Geol., Med., Nat. Hist. LABORATORIES at St. Andrews—in all above depts. except Med., also Chem. (with special Research lab.), Marine, Physics, Physiol., Bot. Garden. At Dundee—Anat., Bact., Chem., Embryol., Engin. (Elec., Hydraulic, Mech.), Mat. Med., Maths., Nat. Hist., Physics, Physiol., Pathol.

FACULTIES. Divinity, Arts, Science, Medicine. Deans: Prof. G. S. Duncan (Biblical Criticism), Prof. Blyth Webster (English), Prof. Herring (Physiology), Prof. Charteris (Materia Med.).

ADMISSION, v. Appendix I.

DEGREES, ETC., v. also pp. 352 ff. Courses for graduation in Arts and Science are given both in the United Coll., St. And., and in Univ. Coll., Dundee, some being given in both places, some—Greek, Hebrew, Hist., Moral Philos., Psychol., Pol. Econ., Pol. Science—only in St. And., some—Engineering—only in Dundee; Medical, after the first two yrs., and Dental solely, in Dundee, where facilities for clinical instruction are available. Here also are provided courses in Scots Law and Conveyancing.

The M.A. Course includes a General and a Special examn. The former, which must be completed before proceeding to the Special, embraces at least 5 subjects, of which Latin or Greek must be one, another must be either Maths. or Philos., at least two must be linguistic, and at least one scientific. *Senatus* can, on recommendation of the Fac. of Arts, allow another subject or subjects to be taken in lieu of Lat. or Greek. *Foreign students* may take Arabic or Hebrew in lieu of Latin or Greek. In the Special examn. two cognate subjects must be taken, the whole examn. being passed at one time.

The B.Sc. Ordinary degree in Pure Science involves a 3 yrs.' course, embracing at least 4 subjects with a 1st examn. (4 subjects) and a 2nd (2 subjects); the Honours degree involves a 4 yrs.' course (the last year being devoted exclusively to advanced study in the Hons. subject) with 2 examns.—a 1st in 4 subjects and an Honours in one.

Dental Surgery. B.D.S. (5 yrs., of which not less than 3 at the Univ., the remaining 2 at a recognized Univ. or School); M.D.S. (1 yr. later by examn. and thesis); L.D.S. and D.P.D. (Diploma in Public Dentistry) *see* below.

DIPLOMAS. Education, for graduates who complete the first year of the Ed.B. course; D.P.H., 12 months; L.D.S., 4 yrs.; D.P.D., 5 mos. after obtaining registrable Dental qualification.

FEES (v. *also* Carnegie Trust, p. 355). Matriculation, £2 : 12 : 6 p.a. Inclusive tuition fees for M.A., £47 : 5s.; Hons. M.A., £63; B.D., £40 : 19s.; B.Sc., £80; B.Sc. (Engineering), 90 gs.; B.Sc. Hons., 90 gs.; M.B., Ch.B., £182; B.D.S., £110 : 12 : 6; L.D.S., £88 : 10s. Combined Courses: M.A. and B.Sc., 112½ gs.; M.A. and M.B., Ch.B., £208; M.A., B.Sc. and M.B., Ch.B., £236; B.Sc. and M.B., Ch.B., £220; M.B., Ch.B. and L.D.S., £208 : 7s. D.P.D., £25; D.P.H., £31 : 10s. The above do not include fees for hospl. ticket or cases of labour, or laboratory fees for use of apparatus, etc. Maximum fee for Research students, 5 gs. a term. Degree fees for M.A., 7½ gs.; B.D., 7½ gs.; B.Sc., 9 gs.; M.B., Ch.B., 33 gs.; B.D.S., 25 gs.; M.D. or Ch.M., 20 gs.; D.Litt., D.Sc., L.D.S. or M.D.S., 15 gs.; Ph.D. or D.P.H., 10 gs.; B.Phil. or B.Litt., 6 gs.; D.P.D., 5 gs. Dipl. in Educ., £4 : 14 : 6.

ADVISERS OF STUDENTS. At St. Andrews: in Arts, Prof. A. B. Webster; in Sci., Prof. P. T. Herring; in Med., Prof. D. Waterston. At Dundee: in Arts, Prof. E. T. Copson; in Sci., Prof. A. Peacock; in Med., Prof. F. J. Charteris.

RESIDENCE. University Hall, Kinnessburn and Afton (Warden: Miss V. C. Murray, M.A.); Chattan House (Warden: Miss E. S. Steele, B.Sc., Ph.D.), for Women at St. Andrews, £66 and upwards p.a., excl. of tuition fees. Airlie House for women, Dundee (Warden: Miss V. W. Moffatt), £62 : 10s. p.a. St. Salvator's Hall, Dean's Court, Edgecliff West and Swallowgate, for men, (Warden: B. Babington Smith, M.A.) at St. Andrews, from £54, excl. of tuition fees. William Low Residence (Warden: Dr. H. E. Hutchison) for Medical Students during clinical studies, £63 p.a. at Dundee.

SCHOLARSHIPS FOR GRADUATES, v. also pp. 354-55: 14, annual value about £1711. Guthrie (£135 p.a. for 4 yrs.), tenable at Oxford or Cambridge or (with special permission) at a foreign Univ.; Ramsay (£150 p.a. for 2 yrs.), Bruce (£150 p.a. for 2 yrs.), and Berry (£160 p.a. for 2 yrs.) may, with permission of United College, be tenable in another Univ. or Institution.

UNIVERSITY APPOINTMENTS BOARD. Secretary—D. J. B. Ritchie, B.L.

An ALUMNUS ASSOCIATION was founded in 1926. ST. ANDREWS UNIV. CLUB, LONDON, founded 1904. Hon. Sec.—R. Bruce Harley, B.Sc., Kinkell. Leighton Avenue, Pinner, Middlesex. LONDON ASSOCIATION OF ST. ANDREWS UNIV. WOMEN, founded 1926. Sec.—Miss A. M. Bozman, 9 Handel Mansions, Handel St., London W.C.1. Alumnus Clubs also exist in Aberdeen, Birmingham, Dundee, Edinburgh, Fife, Glasgow, Johannesburg, Leeds, Manchester, Montreal, Newcastle upon Tyne, Selkirk, Sutherland, Toronto, New York.

PUBLICATIONS. *Calendar* (Sept.). 3s. 6d.; U. Coll. Dundee, *Calendar*, 6d.; Students' Repve. Council's *College Echoes*; Alumnus Association's *Chronicle* (half-yearly).

THE YEAR 1937–38

BENEFACTIONS. Mr. and Mrs. William Boyd, £2500 (third instalment of £17,500 for institution of Chair in Dental Surg.); Imperial Chemical Industries, Ltd., £25 for chemical research; Dr. W. Norman Boase, land for extension of Playing Fields; the late Miss Haldane, bequests of £1000 for Women Students' Union and £1000 for bursaries; gifts of books by French Government, Dr. St. Clair Baddeley, Carnegie Trust for Universities of Scotland, Prof. Allen, Prof. Dickie, Mr. and Mrs. F. H. Sawyer; gift of manuscripts by Miss Scott Lang's Trustees; gymnasium equipment by Sir N. S. Sandeman; golf trophy by Mrs. Miller; memorial clock by After Many Days Club; bronze chains by Dr. Shewan; £5 : 5s. by Mr. P. Sulley.

NEW BUILDINGS. Additions to St. Salvator's and Chattan House Residence Halls, to Women Students Union and to St. Mary's College (retiring rooms); rewiring for electricity Medical Buildings, Dundee; additions to Physiology and Anatomy Depts., St. Andrews.

NEW POSTS. Chair in Dental Surgery; lectureships in Anatomy, Biochemistry and Dental Jurisprudence; assistantships in Econ. and Philosophy; instructorships in Industrial Hygiene and Genetics; technical instructorship in Dental Mechanics.

EXTRA-MURAL CLASSES. Courses of Lectures (Adult Educn.) were conducted in 9 centres: 431 enrolments.

LECTURES DELIVERED AT THE UNIVERSITY. Andrew Lang Lecture on "Andrew Lang's Poetry," by Prof. A. Blyth Webster; Gifford Lectures on "From Morality to Religion," by Prof. D. W. G. de Burgh (Reading); Lectures on "Expedition to Iceland," by Dr. J. Y. Macdonald, "James Gregory," by Prof. H. W. Turnbull; Theological Lectures by Prof. Karl Barth, Bishop Aulen and Father Florovsky.

RESIGNATIONS. Prof. Alex. McKenzie (Chem.); R. Jackson (Philos.); D. Stiven (Physiol.); T. G. Cowling (Maths.); Raymond Smart (Nat. Phil.); L. Comrie (Nat. Hist.); W. O'D. Pierce (Psychol.); W. Prest (Econ.); R. A. Smith (Maths.); J. A. Cuthbert (Fevers); C. Gilbert (Maths.); H. L. Robertson (German); D. G. M'Intosh (Bacter.).

DEATHS. W. N. Boase, LL.D., Chancellor's Assessor; Hon. Lord MacGregor Mitchell, Rector.

HONORARY DEGREES. *D.D.*—Rt. Rev. G. E. H. Aulen, Rev. Prof. J. L. Brun, Prof. M. Dibelius, Father G. V. Florovsky, Rev. F. D. Langlands, Rev. Prof. A. Lecerf, Rev. A. Macdonald, Very Rev. Prof. W. P. Paterson, Very Rev. W. Perry, Rt. Rev. L. Ravasz, Hon. Mary Scott, Very Rev. J. White, Pastor H. Asmussen, Rev. F. Cairns, Rev. G. W. Paterson, Rev. Prof. D. R. Scott. *LL.D.*—Rev. Prof. Karl Barth, Very Rev. D. S. Cairns, R. F. J. Fairlie, Rev. D. Frew, Rt. Hon. Lord Kinnaird, Rt. Hon. Sir John Simon, Prof. G. F. Stout, Rev. W. S. Urquhart, Very Rev. C. L. Warr, Sir C. L. Woolley, W. F. Calman, Prof. E. D. Adrian, Principal W. H. Fyfe, A. D. Lindsay, Lord Provost J. Phin, G. A. Waters.

STUDENTS. Full-time: 885; research, 32; preparing for a first degree, 817; diploma students, 36. Part-time: 91; research, 18; diploma, 19; occasional, 54.

DEGREES. B.D., 3; M.A., 73; B.Sc., 53; D.Litt., 1; D.Sc., 1; M.B., Ch.B., 49; M.D., 3; Ph.D., 4; B.D.S., 5; L.D.S., 13; D.P.H., 2; D.P.D., 4; Dipl. in Educn., 10; Hons. granted subsequent to Graduation: Arts, 6; Sci., 11.

THE QUEEN'S UNIVERSITY OF BELFAST

Founded 1909

VISITOR—H.M. THE KING.

CHANCELLOR—The Most Honourable THE MARQUESS OF LONDONDERRY, K.G., P.C., M.V.O., D.C.L., LL.D.

PRO-CHANCELLORS—The Rt. Hon. LORD JUSTICE ANDREWS, B.A. Dub.; Col. T. SINCLAIR, C.B., M.D., M.Ch. R.U.I., F.R.C.S. Eng., M.P.

PRESIDENT AND VICE-CHANCELLOR—D. L. KEIR, M.A. Ox.

REPRESENTATIVES IN PARLIAMENT—*See* p. 18.

REGISTRAR—GREGG WILSON, O.B.E., M.A., Ph.D., D.Sc.

HON. TREASURER—GREGG WILSON (*ad interim*).

LIBRARIAN—G. WOLEDGE, B.A.

SECRETARY—R. H. HUNTER, M.D., M.Ch., Ph.D.

BURSAR—JOHN GREEN, C.A.

CHAIRMAN OF CONVOCATION—The Rt. Hon. Mr. JUSTICE BROWN, B.A.

Telephone: Belfast 21821.

TEACHING STAFF

Accounting, v. Comm.

Agriculture, v. *infra*

Anatomy

Walmsley, T., M.D. Glas. Prof.
Woodside, C. J. A., M.B., B.Ch., B.A.O., F.R.C.S.I. Lectr.
Frazer, Muriel J. L., M.B., B.Ch., B.A.O. Demr.
Cullen, C. H., M.B., B.Ch., B.A.O. Demr.
Irwin, J. W. S., M.B., B.Ch., B.A.O. Demr.
Millen, J. W., M.B., B.Ch., B.A.O. Demr.
M'Neill, J. C., M.A., L.D.S. (Dental A.) Demr.

Archæology and Ancient History

Davies, O., M.A. Ox. Lectr.

Art (*Fine Arts*)

Bertram, A. Sp. Lectr.

Astronomy

Lindsay, E. M., M.Sc., Ph.D. Lectr.

Biochemistry

Harrison, D. C., D.Sc. Lond., Ph.D. Camb., A.I.C. "J. C. White" Prof.
Andrews, S., B.Sc., M.B., B.Ch., B.A.O. "J. C. White" Lectr.
Hawthorne, J. R., M.Sc. Asst.
Loughridge, J. S., M.D., F.R.C.S. (Biophys.) Asst.

Botany

Small, J., D.Sc. Lond. Prof.
Lynn, Mary J., D.Sc. Lectr.
Kertland, M.P.H., M.Sc. Demr.

Celtic

O'Brien, M., M.A., Ph.D. Lectr.

Chemistry

Stewart, A. W., D.Sc. Glas. Prof.

Wilson, C. L., M.Sc., Ph.D. Asst.
Pink, R. C., B.Sc. Asst.
Toms, B. A., M.Sc. Asst.

Chemistry, Organic

Graham, Hugh, D.Sc. Reader.

Classics

Sinclair, T. A., M.A. Camb. (Greek) Prof.
Boyd, M., B.A. Lectr.
Skutch, O., Ph.D. Asst.
Raynor, R. E., B.A. Asst.
Meldrum, Margaret S., B.A. Asst.

Commerce

Meredith, H. O., O.B.E., M.A. Camb., M.Com. Manc. Dean of Fac., Lectr. in C. and Prof. of Econ.
Beacham, A., M.A. Asst.

Recognized Teachers in the Munic. Coll. of Technology

Dodd, F. T. Lloyd, M.A., D.Sc. Prof.
Montgomery, J. K., B.Com.Sc. (Accounting).
Wray, D. C., LL.D. (Coml. Law).
Dunne, T. J., B.Com.Sc. (Econ., Geog., and Business Methods).
Sueyras, M. (Spanish).

Dentistry, v. *infra*

Economics, v. Agric. Econ., Comm., and Hist., Economic

Education

M'Callister, W. J., M.A., B.Sc., Ph.D. Prof.
Cairns, Elizabeth S. A., M.Sc. Asst.

Engineering, Civil

Naylor, A. H., M.Sc. Birm., M.I.C.E., M.I.M.E. Prof.
Finnan, E. J., M.Sc. Lectr.

English Language

Belfour, A. O., M.A. Ox. Reader.

English Literature

Baxter, F. W., M.A. Ox. Prof.
White, H. M. O., M.A. Lectr.
Musgrove, S., B.A. Jr. Lectr.

French and Romance Philology

Savory, D. L., M.A. Ox., O.A., O.I.P. Prof.
Godin, H. J. G., B.A. Lond. Asst.
Bodier, Madeleine A., L. ès L. Paris Asst.

French, Mediæval

Pelan, Margaret MacL., D. de l'U Stras., M.A., Ph.D. Lectr

Geography

Evans, E. E., M.A. Lectr.

Geology

Charlesworth, J. K., D.Sc. Leeds, Ph.D. Bres. Prof.
Anderson, J. G. C., M.A., B.Sc., Ph.D. Asst.

German

Waterhouse, G., M.A. Camb., Litt.D. Dub. Prof.
Davies, H., M.A. Asst.

History [Prof.

Todd, J. E., M.A. Ox. and Edin.
Moody, T. W., B.A., Ph.D. Lectr.
Blake, J. W., M.A. Jr. Lectr.

History, Ancient, v. Archæol.

History, Economic, and Polit. Sc.

Lemberger, J., M.A. Ox. Lectr.

Law

Montrose, J. L., LL.B. Lond. Prof.
Newark, F. H., M.A., B.C.L. Ox. Lectr.
McKean, E. J., M.A., K.C. Special Lectr.

Logic and Metaphysics

Macbeath, A., M.A. Glas. Prof.
..... Jr. Lectr.

Mathematics

McCrea, W. H., M.A., Ph.D. Camb. Prof.
Cooper, R., M.A., Ph.D. Lectr.
Gillis, J., B.A., Ph.D. Camb. Asst.

Music

Brennan, C. J., Mus.Bac. Lectr.

Philosophy, Moral, and History of Philos.

de Selincourt, O., M.A. Ox. Lectr.

Philosophy, Scholastic

Ryan, Rev. A. H., B.A., D.D., Ph.D. Lectr.

Physics, Experimental

Emeléus, K. G., M.A., Ph.D. Camb. Prof.
Sloane, R. H., D.Sc. Jr. Lectr.
McFadden, T., B.Sc. Demr.

Physics, Mathematical

Massey, H. S. W., M.Sc. Melb., Ph.D. Camb. Lectr.
..... Independent Lectr.
Boys, S. F., B.Sc., A.R.C.S. Lond., Ph.D. Camb. Asst.

Physiology

Barcroft, H., M.A., M.D. Camb. Dunville Prof.
Edholm, O. G., B.Sc., M.B., B.S. Lond., M.R.C.S., L.R.C.P. Lectr.
Millen, J. L. E., M.B., B.Ch., B.A.O. Demr.
Hughes, N. C., M.B., B.Ch., B.A.O. Demr.
Rankin, J. C., M.D. Hon. Demr.

Spanish

Llubera, I. G., M.A., D.Litt. Mad. Prof.

Technology, v. *infra*

Zoology

Flynn, T. T., D.Sc. Prof.
Williams, G., M.Sc. Jr. Lectr.
Elias, Doris M., B.Sc. Wales Demr.

Agriculture

Agr. Botany and Plant Diseases

Mercer, S. P., B.Sc. (Dean of Fac.) Prof.
Muskett, A. E., M.Sc., A.R.C.S. Lectr.
Seaton, I. W., B.Sc. (Plant Genetics) Lectr.
Cairns, H., B.Sc., M.Agr. Jr. Lectr.
Wilson, E. V. B., B.Sc. Jr. Lectr.
Linehan, P. A., M.Agr. Asst.

Agr. Chemistry

Baskett, R. G., M.Sc. Prof.
Dickinson, F., B.Sc. Lectr.
Houston, J., D.Sc. Jr. Lectr.
Baird, J. C., B.Sc., B.Agr. Jr. Lectr.
Common, R. H., B.Sc., M.Agr., Ph.D. Jr. Lectr.
Prentice, J. H., B.Sc., B.Agr. Asst.

Agr. Economics

Morris, G. I., B.A. Ox. Lectr.

Agr. Zoology

Chamberlain, R., B.Sc. Lectr.

Crop and Animal Husbandry

Morrison, J., B.Sc. Aberd. Lectr.
Hale, R. W., B.Sc. Asst.

Dairy Bacteriology

Clerkin, P., B.Agr.Sc., B.Sc. Lectr.
Knowles, N. R., M.Sc. Asst

Veterinary Science

Lamont, H. G., M.Sc., M.R.C.V.S. Lectr.
Kerr, W. R., M.R.C.V.S. Jr. Lectr.
Shanks, P. L., M.R.C.V.S. Asst.
Foggie, A., M.R.C.V.S. Asst.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology

Graham, N. C., M.C., M.B., B.Ch., B.A.O., D.P.H. " J. C. White " Lectr.

Bartley, Eileen O., M.D., D.P.H. Jr. Lectr.

Hygiene, v. Pub. Health and San. Science

Infant Hygiene and Diseases of Children

Allen, F. M. B., M.D., M.R.C.P. Lectr.

Materia Med. and Therapeutics

Lewis, J. T., B.Sc., M.D., F.R.C.P. Lectr.

Medical Jurisprudence

The Prof. of Pathology Lectr.

Medicine

Thomson, W. W. D., B.A. R.U.I., B.Sc., M.D., D.P.H., F.R.C.P. Prof.

Strain, R. W. M., B.Sc., M.D. Asst.

2 Clinical Lectrs.

Medicine, Psychological

Graham, N. B., M.C., B.A. R.U.I., D.P.M. Camb., M.B., Ch.B., B.A.O. Lectr.

Midwifery and Gynæcology

Lowry, C. G., M.D. R.U.I., F.R.C.S.I. Prof.

MacAfee, C. H. G., M.B., B.Ch., B.A.O., F.R.C.S. Eng. and I., F.C.O.G. Lectr.

McClure, H. I., M.B., B.Ch., B.A.O., F.R.C.S.Ed. Lectr.

Brooke, A. K., M.B., Ch.B. Edin. Tutor.

1 Clinical Lectr.

Ophthalmology

Wheeler, J. R., M.B., B.Ch., B.A.O., D.L.O., D.O.M.S., F.R.C.S.E. Lectr.

2 Clinical Lectrs.

Pathology

Biggart, J. H., D.Sc., M.D. Musgrave Prof.

Morrison, R., M.B., Ch.B. Edin. Demr.

Morison, J. E., M.B., B.Ch., B.A.O., B.Sc. Demr.

Nelson, M., M.B., B.Ch., B.A.O. Demr.

Pharmacology [Prof.

Mayrs, E. B. C., M.D., D.P.H.

M'Cann, J. S., M.B., B.Ch., B.A.O. Asst.

Public Health [Prof.

Wilson, W. J., B.A., M.D., B.A.O. R.U.I., D.P.H. Camb., D Sc.

Thomson, C. S., M.D. Glas., D.P.H. Durh., M.R.C.P. Ed. (Administration) Lectr.

Blair, E. Maude McV., M.Sc., Ph.D. Asst.

Sanitary Science

Wilson, Prof. W. J. Prof.

Surgery

Crymble, P. T., M.B., Ch.B., B.A.O. R.U.I., F.R.C.S. Prof.

Loughridge, J. S., M.D., F.R.C.S. Asst.

2 Clinical Lectrs.

Surgery, Oper., and Applied Anat.

Malcolm, H. P., M.C., M.Ch. Lectr.

Vaccination

Armstrong, S. R., O.B.E., M.B., B.Ch., B.A.O. Teacher.

Dentistry

Hunter, W. M., L.D.S. Edin (Metallurgy) Lectr

Elwood, H., L.D.S. Edin. and Penn. (Mechanics) Lectr.

Swan, W. M., L.D.S. R.C.S. Eng. (Surgery) Lectr.

McKeag, H. T. A., B.A., B.D.S. Dub. (Orthod.) Lectr.

Geddes, S., M.B., B.Ch., B.A.O. (Anæsthetics) Lectr.

Beath, R. M., B.A. R.U.I., M.B., B.S. Lond., M.B., B.Ch., B.A.O. (Radiol.) Lectr.

Lyons, J., L.D.S. (Mat. Med.) Lectr.

Riordon, M. G., L.D.S. (Clin. D. Surg.) Lectr. & Tutor.

Technology

(v. also Agr. and Engin., Civil)

Extra-Mural Staff (Hon.), being Profs. and Lectrs. at the Munic Coll. of Tech.

Architecture

Beaumont, I., A.R.C.A. Prof.

Building Construction

Hampshire, T. R. Lectr.

Chemical Technology

Wren, H., M.A., D.Sc., Ph.D. Prof.
Still, C. J., M.Sc., Ph.D., A.I.C. Lectr.
Hughes, K. R., B.A. Lectr.
Porter, J. W., A.R.C.S.I. Lectr.

Electrical Engineering and Physics

Burns, P. L., B.Sc. (Elec. E.) Prof.
Allen, T. P., M.Sc. Lectr.
Crowley, T. A., B.Sc. Lectr.
Davies, A. L., M.Sc. Lectr.

Mathematics

Murphy, J. J. F., M.Sc. Lond. Lectr.

Mechanical Engineering

Warnock, F. V., B.Sc., Ph.D., A.R.C.S. Prof.

Pharmacy and Pharmacognosy

Young, C. W., Ph.C. Lectr.

Textile Industries

Dorman, H., M.Sc. Lectr.

Extra-mural Studies

Allway, A. J., M.A. Sheff. Lectr. and Director.

RECOGNIZED COLLEGES AND TEACHERS

COLLEGE OF TECHNOLOGY, BELFAST, v. *supra*—Commerce and Tech. The complete course for the B.Sc. in Engineering, Textile Technology, Architecture, Naval Architecture, Pharmaceutics, Chemical Technology, may be taken at this college.

THE PRESBYTERIAN COLLEGE, BELFAST. The complete course for the B.D. may be taken at this college. Dean, Prof. T. A. Sinclair.

GENERAL INFORMATION

Queen's College, incorporated in 1849, was dissolved in 1909 on the constitution of the Queen's University of Belfast.

LIBRARY, 150,000 vols. INSTITUTE OF PATHOLOGY: Pathol. and Bacteriol. MUSEUMS: Class. Archæol., Nat. Hist., Medical, Materia Medica. LABORATORIES: Chemistry (" Donald Currie "), Engineering (" Harland "), Physiology (" Jaffé "), Bio-Chemistry and Bacteriology (" White "), Physics, Anat., Bot., Geol., Pharm., Zool., Agric. HOSPITALS available for Clinics: 3 general, 10 special (Fever, Maternity, Women, Children, Ophth., Eye, Ear and Throat, Consumption, Lunacy, Skin).

FACULTIES. (1) Arts (including Music), (2) Science (including Civil Engin.), (3) Law, (4) Medicine (including Dentistry), (5) Commerce, (6) Applied Science and Technology, (7) Agriculture, (8) Theology. Deans of Faculties: Profs. (1) G. Waterhouse, (2) T. T. Flynn, (3) J. L. Montrose, (4) W. J. Wilson, (5) H. O. Meredith, (6) K. G. Emeléus, (7) S. P. Mercer, (8) T. A. Sinclair.

ADMISSION. *See* Appendix I.

DEGREE COURSES. 3 yrs.—B.A., B.Sc., B.Sc. in Engin., Pharmaceutics, or Textile Tech., LL.B., B.Com.Sc.; 4 yrs.—B.Agr., B.D.S.; 5½ yrs. (of which

2 may be in other approved Univs. or Med. Schools)—M.B., B.Ch., B.A.O.; 2 yrs.—LL.B. course and B.D. course for graduates of this or some other approved Univ.

The courses in Elec. and Mech. Engin. are taken in the College of Technology; 3 yrs.' day or 5 yrs.' evening classes in the College qualify for B.Sc. in Applied Science and Technology and for the B.Com.Sc. Evening classes in a subject do not qualify for the B.Sc. or B.Com.Sc. unless the candidate has concurrent day-time employment in some technical or commercial branch of the same subject.

Diplomas. Educn. (1 or 2 yrs.); Higher Dipl. in Educn. (for grads.), 1 yr.; Public Health (for grads. in Med.), 1 yr.; Lic. in Dent. Surg., 4 yrs.; Dipl. in Psych. Med. (for grads. in Med.), 1 yr.

HIGHER DEGREES. The M.A. may be taken by a B.A. 1 yr. after graduation (examn. or thesis or independent research). The (1) D.Lit. and (2) LL.D. are conferred on grads. of this Univ. distinguished in (1) letters, or in literary, philos., or hist. research, or (2) Law, or in legal or hist. research; they may also be obtained by thesis or published works. The M.Sc. is open to a B.Sc. of the Univ. and grads. of other Univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or independent research). The D.Sc. is open to grads. of this Univ. 3 yrs. after graduation in any faculty. It is conferred for research or scientific work in relation to Science pure or applied, or for distinction in Science, Engin., or other practical application of Science. The M.D., M.Ch., and M.A.O. are open to grads. in Med. of 3 yrs.' (if also grads. in Arts or Science, 2 yrs.' standing) by examn. or thesis. The M.Agr. may be conferred on a B.Agr. of the Univ. or on graduates of other Univs. who hold equivalent degrees after 2 yrs. for a thesis or independent research. The D.D. is open to grads. in Divinity of the Univ. of at least 6 yrs.' standing. As regards Ph.D. *see* p. 13.

FEES. Enrolment (annual), £3 : 10s. Class fees, annual (inclusive)—Arts, 11 gs.; Engineering, 21 gs.; B.Com.Sc., 11 gs.; M.B., B.Ch., 25 gs.; B.Sc. or B.Agr., 22 gs.; Dipl. Educn. (2 yrs.), 12 gs. for course.

SCHOLARSHIPS, ETC., FOR GRADUATES OF THE UNIV. Studentships of £50: 5 in Arts, which may be raised by £25 and continued for a 2nd yr.; 4 in Science. Special grants to Med. graduates for original research or clin. study. Mackay Wilson Travelling Med. Schol'p, £100. Musgrave Studentships in Path., Physiol., Physics, Biol., and Chem., v. App. II. Four other Studentships of the aggregate annual value of £330.

RESIDENCE. Queen's Chambers (for men students), board and residence £14 per term. Women's Hostel, board and residence per annum about £45. Board and lodging obtainable in the town from about 25s. a week upwards.

ASSOCIATIONS. A Queen's Univ. Assocn. has been formed, Secs., Major Geo. Thomson, D.S.O., Parliament Buildings, Belfast, and Prof. W. B. Morton, Glencarse, Notting Hill, Belfast.

There is also a Queen's University Club which meets in London. Secy., R. L. Rea, M.D., F.R.C.S., 101 Harley St., London, W.

RECOGNITION OF OTHER UNIVS. Students from other approved Univs. may apply for exemption from a year's attendance for first degree, attendance and examn. in some of the subjects for first degrees in Arts and Science, in consideration of equivalent courses and examns. elsewhere.

UNIVERSITY EXTENSION lectures by members of the Univ. Staff are given in Belfast and other towns.

PUBLICATIONS. *Calendar* (Oct.), 2s.; Students' mag., *The Northman.*

THE YEAR 1937–38

BENEFACTIONS. Alpha Club, travelling scholarship for women students, £40; anonymous, a woman graduate, for the Centenary Building Fund, £28 : 15s.; Bayer Products Limited, for plant pathological research in the Department of Agricultural Botany, £300; Belfast Association of Engineers, prizes for students of engineering, £10; British Asphalt & Bitumen Company, for research expenses in Dept. of Chemistry, £26 : 5s.; the Hon. Mr. Justice Megaw, for the Centenary Building Fund, £250; Milroy Fund, from subscribers, a die for medals in commemoration of J. A. Milroy, "J. C. White" Prof. of Biochemistry, 1924–34, and of his brother T. H. Milroy, Dunville Prof. of Physiology, 1902–35, together with a balance of £147 : 19s.; Mrs. Woolnough, to found in memory of her uncle, A. C. Dixon, F.R.S., D.Sc., Prof. of Mathematics, 1901–1930, a book prize in Mathematics, £100; Mr. Stanley F. Wright, to erect in the entrance hall a window in memory of past Queensmen and Queenswomen, £100 (in addition to £500 in 1936).

NEW POSTS. Lectureships in Physiology and Astronomy.

PUBLIC LECTURES GIVEN AT THE UNIVERSITY. Prof. W. G. Holford (Lectr. in Fine Arts), 4 lectures on "Towns of To-day and To-morrow." Prof. I. G. Llubera, 3 lectures on "Spanish Romanesque and Gothic Architecture." Prof. J. H. Biggart (Inaugural Lecture), "The Brain as an Organ." Prof. J. K. Charlesworth, "The World during the Ice Age."

RESIGNATIONS. F. W. Ogilvie (Vice-Chancellor), on appt. as Director of British Broadcasting Corporation; I. D. O. Arnold (Med. French), on appt. as Prof. of French in Univ. of Leeds; R. H. Hunter (Anat.), on appt. as Secretary, Queen's Univ., Belfast.

RETIREMENTS. R. M. Henry (Latin), on reaching retiring age; F. H. Hummel (Engin.), on reaching retiring age.

DEATH. H. J. Eason (Extra-mural studies).

HONORARY DEGREES. *LL.D.*—Mr. T. G. Houston. *D.Litt.*—Prof. Martin P. Nillson (Lund). *D.Sc.*—Prof. James P. Hill, F.R.S. (London). *M.A.*—Lieut.-Col. R. G. D. Groves-Raines, D.S.O.; Rosamond S. Praeger, R.H.A.

STUDENTS. Full-time: 1347, including 40 graduates. Part-time: 262, including 52 graduates.

DEGREES. B.A., 70; M.A. 9; LL.B., 4; B.Sc., 32; M.Sc., 12; B.Sc. in App. Sc. and Tech., 11; M.B., 59; M.D., 16; B.Com.Sc., 11; B.Agr., 5; L.D.S., 4; B.D.S., 2; Ph.D., 2; D.P.H., 12; Dip. in Ed., 24; H.Dip. in Ed., 24.

UNIVERSITY OF DUBLIN, TRINITY COLLEGE

Founded 1592

CHANCELLOR—The Rt. Hon. THE EARL OF IVEAGH, C.B., C.M.G., LL.D.

VICE-CHANCELLOR—The Rt. Hon. Sir THOMAS F. MOLONY, Bart., LL.D.

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR); GERALD FITZGIBBON, LL.D.

PROVOST—W. E. THRIFT, M.A., Sc.D.

LIBRARIAN—J. G. SMYLY, M.A., Litt.D.

REGISTRAR—E. H. ALTON, M.A., Litt.D.

LADY REGISTRAR—CHRISTABEL F. GODFREY, M.A.

REPRESENTATIVES IN SEANAD EIREANN—E. H. ALTON, Litt.D., R. J. ROWLETT, M.D., J. JOHNSTON, M.A.

Telephone: Registrar—Dublin 44499.

SENIOR FELLOWS OF THE COLLEGE—

Fry, M. W. J., M.A., *Sr. Lectr. and Catechist.*
Smyly, J. G., M.A., Litt.D., *Librarian and Senior Dean.*
Goligher, W. A., M.A., Litt.D., *Vice-Provost.*
Fraser, J., M.A., *Auditor.*
Alton, E. H., M.A., Litt.D., Dott.U. Padua, *Registrar.*
Gwynn, Rev. R. M., M.A., B.D., *Sr. Proctor.*
Thrift, H., M.A., *Bursar.*

JUNIOR FELLOWS OF THE COLLEGE—

*†Tate, Sir Robert W., K.B.E., M.A., Public Orator.
*†Luce, Rev. A. A., M.A., D.D.
*†Johnston, J., M.A.
*†Henry, J. M., M.A.
*†Godfrey, F. La T., M.A.
†Rowe, C. H., M.A., M.Sc. N.U.I.
†Fearon, W. R., M.A., Sc.D., M.B., F.I.C.
†Starkie, W. F., D.Lit. Hartford, M.A., Litt.D.
†Bailey, K. C., D. de l'U. Toulouse, M.A., Sc.D., Litt.D., *Jr. Dean.*
†Ditchburn, R. W., M.A., B.Sc., Ph.D.
*†Parke, H. W., M.A., Litt.D.
†M'Connell, A. J., D. d'U. Rome, M.A., M.Sc., Sc.D.
*†Duncan, G. A., M.A., LL.B.
*†Broderick, T. S., M.A.
†Walton, E. T. S., Ph.D. Camb., M.A., Sc.D.
*†Stanford, W. B., M.A.
*Bell, J., M.A., Sc.D., M.D., *Jr. Proctor.*

* Tutor Fellows. † Honor Lecturers for 1938–39.

TEACHING STAFF

Anatomy, Human, and Embryol., v. also Zool.

Jamieson, J. Kay, M.B., C.M. Edin., LL.D. Leeds Prof.
Inkster, R. G., M.D. Chief Asst.
Henry, R. F. J., M.B., F.R.C.S.I. (Applied Anat.) Lectr.

Anglo-Saxon

Liddell, M. F., M.A., Ph.D. Lectr.

Art, History of [Hon. Prof.

Bodkin, T., D.Litt. N.U.I., Litt.D.

Astronomy

Royal Astronomer of Ireland (suspended) Prof.
O'Connor, F. J., B.A. Lectr.

Biochemistry and Biophysics, v. Medicine, *infra*

Botany and Plant Biol.

Dixon, H. H., Sc.D., F.R.S. Prof.
Ballard, L. A. T., Ph.D. Camb. Asst.

Celtic Languages, v. also Irish

Knott, Eleanor, D.Litt. N.U.I., M.A. Lectr.
Greene, D. W., B.A. Lectr.

Chemistry [Prof.

Werner, E. A., M.A., Sc.D., F.I.C.
Bailey, K. C., M.A., Sc.D., Litt.D. F.I.C. (Physical Chem.) Prof.
Ramsden, W. C., M.A. Sr. Asst.
Wemer, A. E. A., Ph.D. Freib., M.A., M.Sc. Lectr.

Classical Archæol.

Parke, H. W., M.A., Litt.D.
Louis Claude Purser Lectr.

Classics

Goligher, W. A., M.A., Litt.D. (Greek) Regius Prof.
Alton, E. H., Dott. U. Padua, M.A., Litt.D. (Latin) Prof.
Tate, Sir R. W., K.B.E., M.A. Camb. and Dub. (Classical Composition) Honor Lectr.
The Tutorial Staff Lectrs.

Commerce

Lecturers

Johnston, J., M.A. (Econ.)
Duncan, G. A., M.A. (Econ.)
Maxwell, Constantia E., M.A., Litt.D. (Econ. Hist.).
Freeman, T. W., M.A. Leeds (Comm. Geog.).
Butler, W. B., M.A. (Accounting).
Beere, Thekla J., M.A., LL.B. (Statist. Method).
Magrath, C. R. R., M.A. (Bus. Organ., Banking, Foreign Trade).
Moran, Frances E., LL.D. (Comm. Law).
Corrigan, T. H. (Insurance).
Ingram, J. (Transport).

Dentistry, v. *infra*

Divinity, v. Theol. *infra*

Economics, v. Polit. Econ. and Commerce

Education

Fynne, R. J., M.A. Dub. and Lond. Prof.
Auchmuty, J. J., M.A., Ph.D. (Hist. of E.) Lectr.
Little, Anita C., M.A. Asst.
Hickson, W. S. E., M.A., M.Sc. Asst.

Engineering, Civil

Purser, J., M.Sc. Birm., M.A., M.A.I. Prof.
Cotter, J. R., M.A. Lectr.
Jackson, J. T., M.A. Asst.
M'Cormick, F. R. A., M.A., A.R.C.S.I. Asst.
Roberts, A. I. N., B.A. Camb. and Dub., B.A.I. (Building Construction) Lectr.

Engineering, Electr.

Kennard, F. E., B.Sc. Lond., M.I.E.E. (Practice of E. Eng.) Lectr.

O'Brien, Col. Eoghan, D.S.O., B.Sc. Leeds (Railway Traction) Lectr.

Engineering, Harbour

Griffith, Sir J. P., M.A.I. Hon. Prof

Engineering, Sanitary, v. Public Health

English Language

Pyle, W. F., M.A., Ph.D. (Middle Eng.) Lectr.

English Literature

Trench, W. Fitz J., M.A. Camb. and Dub., Litt.D. Prof.

French, R. B. D., M.A. Lectr.

French

Rudmose-Brown, T. B., M.A. Dub. and Aberd., D. de l'U. Grenoble, Litt.D. Prof.

Skeffington, O. L. S., M.A., Ph.D. Lectr.

MacCarthy, Ethna M., M.A. Asst.

Leventhal, A. J., M.A., Ph.D. Asst.

Geography

Freeman, T. W., M.A. Leeds Lectr.

Geology and Mineralogy

Smyth, L. B., M.A., Sc.D. Prof.

Mitchell, G. F., M.A., M.Sc. Asst.

Geophysics

Poole, J. H. J., M.A., Sc.D. Prof.

German

Liddell, M. F., M.A. Dub. and Edin., Ph.D. Birm. Prof.

Leventhal, A. J., M.A., Ph.D. Asst.

Hebrew, v. *infra* Orient. Langs.

History, Ancient

Parke, H. W., M.A. Dub. and Ox., Litt.D. Prof.

History, Ecclesiastical, v. Theol. *infra*

History, Modern, v. also Oratory and Hist.

Curtis, Prof. E., M.A. Dub. and Ox., Litt.D. Prof.

Phillips, W. A., M.A. Dub. and Ox., Litt.D. Lecky Prof.

Maxwell, Constantia E., M.A., Litt.D. Lectr.

Otway-Ruthven, Annette J., B.A. Lectr.

Irish [Prof.

O'Toole, E., M.A. Dub. and N.U.I.

Beaumont, J. N., M.A. Asst.

Italian [Honor Lectr.

Tate, Sir R. W., K.B.E., M.A.

Starkie, W. F., Litt.D. (Ital. Lit.) Lectr.

Law, v. *infra*

Mathematics

Rowe, C. H., M.A., M.Sc. N.U.I. Erasmus Smith's Prof.

Broderick, T. S., M.A. Dub. and N.U.I. Donegal Lectr.

Scott, S. A., B.A. Lectr.

The Tutorial Staff Lectrs.

Medicine, v. *infra*

Music [Prof.

Hewson, G. H. P., M.A., Mus.D.

Oratory and Hist., v. also Hist., Mod.

Curtis, E., M.A. Dub. and Ox., Litt.D. Erasmus Smith's Prof.

Oriental Langs., v. *infra*

Philosophy

Luce, Rev. Canon A. A., M.A., D.D. (Moral P.) Prof.

Hartford, Rev. R. R., M.A., B.D. (Ment. and Moral Sci.) Honor Lectr.

Furlong, E. J. J., B.A. Lectr.

Godfrey, F. La T., M.A. (Hist. of P.) Honor Lectr.

The Tutorial Staff Lectrs.

Physics

M'Connell, A. J., Dott. U. Rome, M.A., M.Sc., Sc.D. (Nat. Philos.) Prof.

Ditchburn, R. W., M.A. Dub. and Camb., B.Sc. Liv., Ph.D. Camb. (Nat. and Exper. Philos.) Erasmus Smith's Prof.

Walton, E. T. S., Ph.D. Camb., M.A., M.Sc. Honor Lectr.

Poole, J. H. J., M.A., B.A.I., Sc.D. (Exper. Phys.) Lectr.

Physiology

Torrens, D. S., M.A., M.B. Prof. and King's Prof. of Insts. of Med.

Taylor, D. B., M.B. Asst.

Political Economy, v. also Comm.

Duncan, G. A., M.A., LL.B. Prof.

Armstrong, Olive G., M.A. (Pol. Sci.) Lectr.

Provençal

Rudmose-Brown, T. B., M.A. Dub. and Aberd., D. de l'U. Grenoble, Litt.D. Lectr.

Spanish

Starkie, W. F., M.A., Litt.D. Prof.

Starkie, Italia Asst.

Theology, v. *infra*

Zoology and Compar. Anat.

Gatenby, J. B., B.Sc., D.Phil. Ox., D.Sc.Lond.,M.A.,Ph.D. Prof.

Macdougald, T. J., Ph.D. Asst.

Law

Brown, S. L., M.A. Belf., K.C. Reg. Prof. of Laws.

Moran, Frances E., M.A., LL.D. Prof. of Laws.

Indian Law

Duncan, G. A., M.A., LL.B. Lectr.

Jurisprudence, General

Coutts, J. A., M.A., LL.B. Camb. Lectr.

Penal Legislation, Const. and Crim. L., and L. of Evid.

Baker, J., M.A., LL.B., Ph.D. Reid Prof.

Roman Law

M'Kenna, C. B., LL.D. Lectr.

Medicine (Physic)

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Moorhead, T. G., LL.D. Belf., M.D., D.P.H., L.M., F.R.C.P.I. Reg. Prof. of Physic.

Synge, V. M., M.D. (Practice of Med.) King's Prof.

Anatomy and Chirurgery

Jamieson, J. K., M.B., C.M. Edin. LL.D. Leeds Prof.

Inkster, R. G., M.D. Edin. Chief Asst. and Univ. Anatomist.

Anatomy, Applied

Henry, R. F. J., M.B. Lectr.

Anæsthetics

Kirkpatrick, T. P. C., D.Litt. N.U.I., Litt.D., M.D., F.R.C.P.I. Lectr.

Bacteriology and Preventive Med.

Bigger, J. W., Sc.D., M.D., D.P.H., F.R.C.P.I. Prof.

Gillespie, W. A., M.B. Asst.

Booth, Emily M., M.D. Asst.

Biochemistry [Prof.

Fearon, W. R., M.A., M.B., Sc.D.

Biophysics [Lectr.

Bell, J., M.A., M.D., Sc.D., F.I.C.

History of Med.

Kirkpatrick, T. P. C., D.Litt. N.U.I., Litt.D., M.D., F.R.C.P.I. Hon. Prof.

Hygiene

Bigger, J. W., Sc.D., M.D., D.P.H., F.R.C.P.I. Lectr.

Materia Medica and Pharmacy
Rowlette, R. J., M.D., F.R.C.P.I. King's Prof.

Medical Jurisprudence
Wallace, J. A., B.Sc., M.B. Lectr.

Midwifery
Browne, O'D. T. D., M.B., F.R C.P.I. King's Prof.
Seager, P. N. L., M.B., B.Ch. Edin. Asst.

Neurology [Hon. Prof
Parker, H. L., M.Sc. Minn., M.B.

Pathology
Wigham, J. T., M.D., D.P.H., F.R.C.P.I. Prof.
Mitchell, D. M., M.A., M.B. Asst.
Pringle, S., M.B., M.Ch.,F.R.C.S.I. (Path. of Bone) Hon. Lectr.

Public Health
Lecturers
Roberts, A. I. N., B.A.I. (San. Constrn. and Planning).
Harbison, J. A., M.D. Belf., D.P.H. (San. Law and P.H. Administrn.).
Bigger, J. W., Sc.D., M.D., D.P.H., F.R.C.P.I. (Vital Stat.).
Ramsden, W. C., M.A. (Chem.)

Radiology
Hardman, T. G., M.D. Lectr.

Surgery
Ball, Sir Chas. A. K., Bt., M.D., M.Ch., F.R.C.S.I. Regius Prof.
Pearson, W., M.D., M.Ch. Prof.
Gill, F., M.D. Asst.

Surgery, Orthopædic
Haughton, W. S., M.D., M.Ch. Hon. Prof.

Dentistry

Hogan, J. E., M.A., L.D.S. (Dental Surg. and Pathol.) Lectr.
Friel, E. S., M.Dent.Sc., Sc.D. (Orthodontics) Lectr.
Cockburn, J., M.A., L.D.S. Eng., L.R.C.P. and S.I., D.P.H., F.R.C.P.I. (Dental Mechanics) Lectr.
Micks, R. H., M.A., M.D. (Med. for Dental Students) Lectr.
M'Caughey, L. W., M.B., B.Dent.Sc. (Dental Anat.) Lectr.

Oriental Languages

Arabic, Persian, and Hindustani [suspended]

Hebrew
Weingreen, J., M.A., Ph.D. Erasmus Smith's Prof.
Gwynn, Rev. R. M., M.A., B.D. Asst.
Baker, J., M.A., LL.B., Ph.D. Lectr.

Sanskrit and Compar. Philol.
Quin, E. G., M.A. Lectr.

Theology

v. also Orient. Langs.

Biblical Greek [Prof.
Gwynn, Rev. R. M., M.A., B.D.

Divinity
Oulton, Rev. J. E. L., M.A., D.D. Regius Prof.
Hartford, Rev. R. R., M.A., B.D. Archbishop King's Prof.
Bateman, Rev. E. M., M.A. Wallace Lectr.
Bell, Rev. W., B.A. Belf., B.D. Lond., M.A. (Bible) Lectr.

Assistants
Luce, Rev. Canon A. A., M.A., D.D.
Green, Rev. D. C., M.A., B.D.
Proctor, Rev. W. C. G., B.D.
Young, Rev. E. J., B.D.
Greening, Rev. E. W., B.D.
Jenkins, Rev. R. G. F., M.A.

Ecclesiastical Hist.

Jourdan, Rev. Canon G. V., D.D., Litt.D. Prof.

Pastoral Theology

Barker, Rev. E. L. B., M.A. Prof.

Donnellan Lecturer

1939—W. Macneile Dixon, M.A., LL.D., Litt.D.

John Mallet Purser Lecturer

1938–39—Sir Henry H. Dale, O.B.E., M.D., D.Sc., LL.D., F.R.C.P., F.R.S.

ASSOCIATED COLLEGES

MAGEE COLLEGE, LONDONDERRY, for first three years of B.A. course.

CHURCH OF IRELAND TRAINING COLLEGE, KILDARE PLACE, DUBLIN. The two years' course of training for teaching in elementary schools is conducted partly at Trinity College, Dublin, and counts towards the Dublin B.A. subject to the candidate qualifying in Latin and a modern foreign language before proceeding as " Sophister " (3rd year).

GENERAL INFORMATION

Trinity College was founded and incorporated by Royal Charter in 1592 as " Mater Universitatis," but no other College has been founded, so that " Dublin Univ." and " Trinity College " are practically interchangeable terms. The Corporation of the College was put on its present basis by Letters Patent in 1637. Letters Patent of 1911 transferred the powers of making statutes from the Crown to the Corporation, subject to the consent of a majority of the Fellows and the approval of the Visitors. The general government of the Univ. is in the hands of the Board of Trinity College, which consists of the Provost, Senior Fellows, 2 representatives of Junior Fellows, and 2 representatives of the non-Fellow Profs. The Univ. Council, formed by representatives from the Board and various Faculties and Schools, has the right of nomination to most Professorships, and in conjunction with the Board can make changes in the curriculum, but otherwise has only advisory functions.

The College occupies a large site in the middle of the city, with ample grounds for the athletic clubs.

THE LIBRARY of Trinity College has enjoyed since 1801 the privilege of receiving a copy of every book published in the United Kingdom. It contains over 446,432 printed books, amongst which there is in the Fagel Library a group of early pamphlets relating to the Dutch and English East and West India Companies. The MSS. are over 2000 in number, and include an important collection in Irish. A General Catalogue of the MSS. was published in 1900, and a Revised Catalogue of the Irish MSS. in 1921. A Catalogue of Printed Books in the library in 1872 was published in 1887 and distributed to the world. There is a Lending Library, which includes 6000 vols. bequeathed by the late W. E. H. Lecky ; and smaller libraries in the Schools of Mod. Langs., Hist., Med., Maths., Nat. Scs., Geog., and Philol.

MUSEUMS. The scientific museums include Zool. and Comp. Anat., Geol. and Mineral., Surg. and Med., Path., Mat. Med., Anthropom., Engin. Models, Nat. Philos. The Zoological is among the best collection in the country. The series of vertebrate osteology is extensive. Attached Laboratories offer all facilities for research work. The collection of Geological and Mineralogical specimens is also extensive.

LABORATORIES. Anat., Anthrop., Bio-Chem., Bot., Chem., Geol., Histology, Mat. Med., Mech. Engin., Pathology, Physical (Iveagh), Physiol., Zool.

HERBARIUM (rich in plants of N. America, India, S. Africa, and Australia). BOTANIC GARDENS, 8 acres.

The Astronomical Observatory of Trinity College is at Dunsink, 5 miles from the College.

Ample facilities for clinical studies and many appointments for graduates are available in numerous HOSPITALS, including the well-known Rotunda. The Irish High Court is situated within a short distance of the College.

PROFESSIONAL SCHOOLS. Divinity, Law, Physic, Engin., Civil Service, Agric., Forestry, Music, Edn., Comm. Registrars: *Law*—G. A. Duncan, M.A.; *Physic*—G. L. Allen, M.A.; *Engin.*—J. Purser, M.A.; *Music*—G. H. P. Hewson, Mus.D.; *Civil Service*—E. H. Alton, Litt.D.; *Edn.*—R. J. Fynne, M.A.; *Agric.*—J. Purser, M.A.; *Comm.*—H. W. Parke, M.A., Litt.D.

ADMISSION. *See* Appendix I.

DEGREES. Every student must take the B.A. before proceeding to any other degree, except those in music and B.Sc., M.Sc., B.Litt., Ph.D. The course lasts 4 yrs., but it is only necessary to keep 2 out of the 3 terms in each, or 8 in all. It is also possible to complete the course within 3 yrs. from entrance by taking the final examn. of the 1st yr. at the time of entering and keeping all 3 terms of the 2nd yr. However, all students not in a professional school or taking the B.Sc. course are required to attend Arts lectures in every term, unless specially exempted (*e.g.* those earning their living by teaching). If exempted they are permitted to keep all of their 8 terms by examn. instead of by attendance.

For the first 2 yrs. (Junr. and Senr. Freshman) all subjects are compulsory: Algebra, Geom., Trig., Mech. *or* Physics *or* Chem., Logic, Engl. Essay, Latin, Greek *or* French *or* Italian *or* Spanish *or* Irish *or* German. After the examn. ("Little-Go") at the end of the 2nd yr. wide freedom of choice is allowed of subjects for the remaining (Junior and Senr. Sophister) yrs., and exemption from one subject is granted to Law, Engin., Comm., and Div. students. For Med. students there is a specially reduced Arts course throughout.

Pass Arts teaching, mainly given by the Tutor Fellows, is partly of a catechetical nature. Every student must choose one of the Tutor Fellows (see list above) as his Tutor and should apply to him for all information before and after entrance.

The *Honours* B.A.—known as a *Moderatorship*—can be taken in 12 different groups (viz. 1 Math., 2 Class., 3 Ment. and Mor. Sc., 4 Exp. Sc., 5 Nat. Sc., 6 Hist. and Pol. Sc., 7 Mod. Lit., 8 Leg. Sc., 9 Eng. Sc., 10 Celtic, 11 Oriental Lang., 12 Econ. and Pol. Sc.), and undergraduate honours in the same subjects (except Nos. 9 and 11) can be obtained in each academic year and in most subjects in each term. The course lasts four years in the case of Nos. 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, three years in No. 9. Instruction in these Honour courses is given partly by the Profs. and partly by the Tutorial staff.

A B.A. of three years' standing may be admitted M.A. There is no examn. for this, nor is a thesis required.

The B.Litt. is obtained by a thesis, and candidates must have at least one yr.'s standing as B.A. They must also, except by special permission of the Board, be graduates with Honours in Classics, Philosophy, History, Modern, Celtic, or Oriental Languages, Legal Science, or Economics, of Dublin or of an approved univ.

The B.Sc. is obtained by a 4-year course consisting of 12 terms of lectures and 4 examns. In the first two years English, French, German, Mathematics

Physics, and Chemistry are compulsory. In the last two years the student studies 3 subjects chosen from Physics, Chem., Bot., Zool., Physiol., Geol., Anat.

A B.Sc. with hons. is obtained by passing an examn. identical with Moderatorships (*see* above) in Experimental or Nat. Science.

The B.D. is obtained by an examn. open to all grads. in Arts, the D.D. is open to any B.D., eight years after taking B.A., and is awarded on a thesis or published Theol. work.

The LL.B. course covers 2 yrs.; the M.B., B.Ch., and B.A.O., 6 yrs.; B.Dent.Sc., 6 yrs.; B.A.I., 3 yrs. (optional 4th yr. in Elec. and Mech. Engin.); Agr.B. or Agr. (Forestry) B., 4 yrs., of which 3rd and 4th are taken in Univ. Coll. (N.U.I.); B.Comm., 3 yrs. The M.Sc. and Ph.D. (v. p. 13) involve post-graduate study and research for 1 yr. and 2 yrs. respectively.

A candidate for the Sc.D. or Litt.D. must have at least 3 yrs.' standing as B.A., and submit important original work; for LL.D. must be of M.A. standing—a thesis or a published work is required; for M.D. must have taken the M.B. degree and be of M.A. standing; for M.Ch. must be a B.Ch. of 3 yrs.' standing; for M.A.O., a B.A.O. of 2 yrs.' standing; a thesis or examn. is required for M.D., an examn. for the M.Ch. or M.A.O. A candidate for M.Dent.Sc. must be a B.Dent.Sc. of 3 yrs.' standing, and pass an examn.; for M.A.I. must have practised his profession for 3 yrs. after graduating as B.A.I.

The Mus.B. is granted after an exercise or practical test and 2 examns., the Mus.D. after an exercise and examn.

DIPLOMAS in Agric., Educn. (Primary and Higher), Econ. and Comml. Knowledge, Elec. Engin., Gynæc. and Obst. (1 yr.'s course), D.P.H., Psych. Med., Geog., Religious Knowledge (women), Social Studies, Hist. of European Painting, Biblical Studies.

License in Engineering (first two years of Arts course and complete course in Engineering). License in Med., Surg., and Obst. Science.

Certificate in Engineering (complete course in Engineering, but without Arts course).

Testimonium in Divinity (3 yrs.' course).

FEES. Entrance, £15; Composition for all Arts and Science Lectures, 20 gs. p.a. (to students admitted to advanced standing the entrance fee is remitted and in most cases some of the half-yearly Arts fees); Med. course total (including Hospitals and Degree fees), about £150; Dental Sci. total, about £200; Engin. (3 yrs.), £50 (minimum), in addition to Arts Tuition fees; Divinity free for students in Arts, 20 gs. p.a. for others; Commerce, £47 (if Arts Course is taken), £80 (for extern. students).

Among SCHOLARSHIPS, PRIZES, ETC., OPEN TO GRADUATES are: Two studentships of £100 offered at the B.A. degree examn.; prizes from £50 upwards to selected honour graduates with conditions of study and research attached. Madden Prize Fund £424 p.a. awarded to unsuccessful candidates at Fellowships examn. or for research work or as a *Travelling* Scholarship. *Travelling* Prize, £100 in Medicine or Surgery (3 mos. to be spent abroad). A number of other prizes, etc. (including the National Hist., about £160), are open to graduates under M.A. standing.

EXCHANGE OF STUDENTS. One male student from French École Normale received each year in exchange for one from Trinity Coll.; also one woman student from Belgium. Three students (1 man, 2 women) exchanged similarly for three German students. They give lectures, mainly on conversational French and German, and in return may attend any lectures free of charge and are given free board and lodging.

RESIDENCE. The College has accommodation for 320 students. Rent £9 to £20 p.a. for single sets, £14 to £32 for double sets of rooms; dinner in Hall, 14s. a week. Trinity Hall (*Warden*, Eliz. M. Cunningham, M.A.) accommodates 40 women; board and residence, £23 : 10s. to £28 : 10s. per term of 10 weeks. There is also a hostel for Divinity students of the Church of Ireland.

APPOINTMENTS ASSOCIATION (estab. in 1906). Secy., A. J. Leventhal, M.A., Ph.D.

PUBLICATIONS. *Calendar* (Oct.), 4s., includes information as to courses, results of examns., degrees conferred, etc.; special Suppt. (occasional), lists of past honours, benefactors, etc. *Examn. Papers* of the several Honour schools; of the several Professional schools; of Entrance examns. and prizes; and of Pass Arts, are published in pamphlet form at 1s. per set. The final *War List* has been published, price 2s. 6d. *Book of T.C.D.*, 1591–1891, 21s. (Hodges, Figgis & Co., Dublin). *Hermathena* (twice yearly), original papers in Arts subjects. *T.C.D.* (Students'), 3d. weekly.

THE YEAR 1937–38

BENEFACTIONS. The late Major Henry S. Lefroy Stein, his estate of "Dunedin," Monkstown. Mrs. Farren, a gift of £105 to found a prize in memory of her father, the late John Isaac Beare, F.T.C.D. French Government, 23 volumes of diplomatic documents. Italian Consul-General for Ireland, 53 works by Italian authors. M. Pierre Guerlet, Minister of France in Ireland, French books to value of 20,000 francs. German Government, a number of books. Columbia Univ., an eighteenth-century MS. relating to Trinity College. Society for International Relations, Tokyo, 27 books on Japanese art.

NEW DEVELOPMENTS. Non-foundation Scholarships are no longer restricted to women and men who are not subjects of the British Crown. Provençal (including Catalan) has been added to subjects of Honor course and Moderatorship course in Modern Literature. The John Isaac Beare Memorial Prize has been founded and will be awarded annually at examination for Scholarships in Classics. In accordance with new regulations issued by General Medical Council changes have been made in Pre-registration Examination and in Medical Curriculum.

PUBLIC LECTURES were delivered by Prof. K. C. Bailey, Mr. J. Johnston, Prof. W. R. Fearon, Prof. J. Baker, Prof. M. F. Liddell, Mr. J. Hanna and Dr. Robin Flower.

DEATHS. Robert Russell, Senior Fellow and Bursar; Sir R. H. Woods, Hon. Prof. of Laryngology and Otology.

HONORARY DEGREES. *LL.D.*—C. B. Harmsworth, Per Jacobsson, F. W. Ogilvie, Hon. T. Sullivan. *Litt.D.*—Prof. M. N. Tod. *Sc.D.*—Prof. A. W. Conway.

DEGREES (*Jure Dignitatis*). *D.D.*—Rt. Rev. A. O. Harding. *LL.D.*—Rt. Hon. J. Andrews, Sir J. A. Sheridan, Sir F. V. Wylie.

STUDENTS. Total number on College books under the degree of M.A., June 1938: In Arts: 1308. In addition 160 Med. Students and 21 Law Students not in Faculty of Arts. Total, 1489. Medicine, total, 534; Eng. and Agr., 60; Divinity, 117; Commerce, 32; Law, 56; Edn., 38.

DEGREES. B.D., 5; D.D., 1; B.A., 290; M.A., 71; Litt.D., 1; LL.B., 10; B.Sc., 6; M.Sc., 5; Sc.D., 1; M.B., B.Ch., B.A.O., 53; M.D., 10; M.Ch., 1; M.Dent.Sc., 1; B.A.I., 12; B.A.I. (Elec. et Mech.), 1; B.Comm., 4; Mus.B., 5; B.Litt., 4; Ph.D., 6.

THE NATIONAL UNIVERSITY OF IRELAND

Founded 1909

CHANCELLOR—EAMON DE VALERA, T.D., B.A., B.Sc., Ph.D., LL.D.

VICE-CHANCELLOR—(for biennium ending Dec. 31, 1940), Rt. Rev. Mgr. J. HYNES, M.A., B.D., President, University College, Galway.

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIV. COLLS., CORK AND GALWAY, AND ST. PATRICK'S COLL., MAYNOOTH.

REGISTRAR—ALEX A. MCCARTHY, B.A., LL.D., 49 Merrion Square, Dublin.

REPRESENTATIVES IN SEANAD EIREANN—MRS. HELENA CONCANNON, M.A., D.Litt.; Prof. H. L. BARNIVILLE, B.A., M.D., M.Ch.; Prof. M. TIERNEY, M.A.

Telephone: Registrar—Dublin 62470

CONSTITUENT COLLEGES

UNIVERSITY COLLEGES OF DUBLIN, CORK AND GALWAY.

RECOGNISED COLLEGE

ST. PATRICK'S COLLEGE, MAYNOOTH.

TEACHING STAFF

Prof. of Catholic Theology—Rev. J. J. Hannon, S.J.

Staffs of the Univ. Colleges, v. *infra*.

Recognized Teachers in approved degree courses in St. Patrick's College, Maynooth (President—Right Rev. Monsignor J. F. D'Alton, D.D., M.A., D.Litt.): *Chemistry*—J. Keane, M.Sc., Ph.D. *Classics*—Rev. J. G. O'Neill, M.A.; Rev. J. Duff, M.A.; Rev. P. J. Hamell, B.A., D.D. *Education*—Rev. M. A. Brenan, M.A., H.Dip. in Ed. *English*—Rev. C. Kevin, M.A.; Rev. J. J. McMackin, M.A. *French and German*—Rev. J. L. Rigal, M.A. *Irish*—Rev. G. O'Nolan, M.A., D.Litt. *Maths. and Math. Physics*—Rev. P. J. Browne, M.A., D.Sc. *Music*—Rev. M. Tracy, B.A., L.Mus. Rome. *Philos., Mental and Moral*—Rev. Cornelius Lucey, M.A., D.D.; Rev. P. Coffey, D.Ph.; Very Rev. J. Canon O'Neill, D.Ph. *Physics, Expl.*—Rev. P. J. I. McLaughlin, M.Sc., D. ès S. *Welsh*—Rev. G. O'Nolan, M.A., D.Litt.

GENERAL INFORMATION

The National University of Ireland, with its Constituent Colleges, the University Colleges of Dublin, Cork and Galway, was founded 1909. For early history, *see Yearbook*, 1929.

FACULTIES. (1) Arts, (2) Philosophy and Sociology, (3) Celtic Studies, (4) Science, (5) Law, (6) Medicine, (7) Engineering and Architecture, (8) Commerce,

(9) General Agriculture (Univ. Coll., Dublin, only), (10) Dairy Science (Univ. Coll., Cork, only). Music is included in Arts and Celtic Studies. Classes are held in all Faculties, except (9) and (10), at each of the constituent Colleges, and in 1, 2, 3, and 4 at Maynooth.

ADMISSION. *See* Appendix I.

DEGREES: B.A., M.A., D.Litt., B.Mus., D.Mus., D.Litt.Celt.; B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc.; LL.B., LL.D.; M.B., B.Ch., B.A.O., M.Ch., M.A.O., M.D., B.Sc. and D.Sc. in Pub. Health; M.Econ.Sc.; D.Econ. Sc.; B.Sc. (Dairying); M.Sc. (Dairying); B.D.S., M.D.S.; B.E., M.E., B.Arch., M.Arch.; B.Comm., M.Comm.; Ph.D.

Course for a First degree in any faculty—at least 9 terms in one of the Constituent Colls. or St. Patrick's Coll., Maynooth.

The M.A., M.Sc., M.Agr.Sc., D.Sc., B.Sc. Pub. Health, M.E., M.Arch., M.Comm., Ph.D., D.Litt. may be conferred on graduates or other students for research under prescribed conditions in the Univ. or in a Constituent Coll. during at least 3 terms for a Master's degree or 6 terms for the Doctorate. The duration prescribed for the course of study and research for the Ph.D. is 9 terms (reducible to 6). *See* p. 13.

Diplomas are offered in the subjects of Faculties 1, 3, 8, and in several others; certificates in Commercial subjects and in Organ Music. A Higher Diploma in Educn. may be obtained by a graduate of any Univ. of the U.K. or other approved Univ. after a course in one of the Constituent or Recognized Colls. A Diploma in Library Training is available in Univ. Colls., Dublin and Galway. A Diploma in Social Science is obtainable in Univ. Coll., Dublin.

FEES: Matricn., £3. Combined examn. and degree, £9 to £21. Diplomas, £2 to £5. For tuition fees, v. separate Colleges.

STUDENTSHIPS, ETC., FOR GRADUATES. Five of £200 each, tenable for 2 yrs. outside Ireland (to which a prize for a further year of Irish Historical Research may be added), open to graduates of the Univ. of not more than 4 yrs.' (one in Medicine, 2 yrs.', one in Philosophy, 5 yrs.') standing; a scholarship of £150 in Psychological Medicine; bursaries in Commerce, Engineering, £150, each tenable for 1 yr.; prize of £100 for Irish Historical Research.

APPOINTMENTS COMMITTEE. The Secretary, 86 St. Stephen's Green, Dublin.

PUBLICATION. *Calendar* (December), 2s., post free, 2s. 9d.

THE YEAR 1937–38

HONORARY DEGREES. *M.A.*—Robert J. Gibbings. *D.Litt.*—Miss Sophie O'Brien; Miss Eleanor Knott; Thomas G. Jones. *D.Sc.*—Sir John Purser Griffith; Laurence J. Kettle. *LL.D.*—Joseph Brennan; William J. Herlihy (Bro. Brendan); Alex A. McCarthy. *B.Sc.* (*Honoris Causa*)—conferred on 32 Associates of the late Royal College of Science, Ireland.

TRAVELLING STUDENTSHIPS. Five in the year 1937–8.

DEGREES (Aug. 1, 1937—July 31, 1938). B.A., 346; M.A., 51; B.Arch., 3; B.Comm., 116; M.Comm., 1; M.Econ.Sc., 1; D.Econ.Sc., 1; B.Mus., 2; LL.B., 9; B.Sc., 48; M.Sc., 13; D.Sc., 1; B.E., 38; B.Sc. (Dairying), 3; B.Sc. (Public Health), 11; B.Agr.Sc., 9; M.B., B.Ch., B.A.O., 136; M.D., 9; M.Ch., 3; M.A.O., 1; B.D.S., 8; Ph.D., 2; D.Litt., 1.

DIPLOMAS. Dip.Ed., 22; H.Dip.Ed., 230; Dip. Library Training, 7; Dip. Social Science, 12; Dip. Dairy Science, 9; D.P.H., 16; Dip. Psychological Med., 2.

UNIVERSITY COLLEGE, DUBLIN

Founded 1909

PRESIDENT—D. J. COFFEY, LL.D. Dub. and Belf., M.A., M.B., B.Ch., B.A.O.

REGISTRAR—Prof. A. W. CONWAY, M.A., R.U.I. and Ox., D.Sc., LL.D., F.R.S.

SECRETARY AND BURSAR—.....

LIBRARIAN—J. J. O'NEILL.

Telephone: 52116

TEACHING STAFF

Accountancy

O'Brien, G. W., M.A., B.Comm., A.C.A. Lectr.

Agriculture, v. *infra*

Anatomy [Prof.

McLoughlin, E. P., B.A., M.D.

MacAuley, C. J., M.B., B.Ch., B.A.O., F.R.C.S. Eng. Asst.

Keenan, E., M.D. Asst.

Archæology, Celtic [Prof.

Macalister, R. A. S., M.A., D.Litt.

Architecture

Butler, R. M., M.Arch., F.R.I.B.A., F.R.I.A.I. Prof.

McDermott, M., B.Arch. Demr.

Griffith, J. L., B.Arch. Demr.

Banking and Finance

Shields, Prof. B. F. Actg. Lectr.

Botany

Doyle, Joseph, B.A., D.Sc. Prof.

La Touche, C. J. P., M.Sc. Asst.

Chemistry

Nolan, T. J., B.A., D.Sc. Prof.

Algar, J., B.A., D.Sc., (Med. C.) Prof.

Keane, J., M.Sc., Ph.D. Lectr.

Chemistry, Applied Organic

*O'Farrelly, A., M.A., F.I.C. Prof.

Chemistry, Phys. & Metallurgical

*Leonard, A. G. G., B.Sc., Ph.D., F.R.C.S.I. Lectr.

Classics

Tierney, M., M.A. (Greek) Prof.

Semple, P., M.A. (Latin) Prof.

Gwynn, Rev. A., S.J., B.Litt. Ox., M.A. (Anc. Hist.) Lectr.

Farrell, E., B.A. Lectr.

Commerce [Prof.

Shields, B. F., M.A., D.Econ.Sc.

Dentistry, v. *infra*

Economics, v. Pol. Econ.

Education

Corcoran, Rev. T., D.Litt. Prof.

Williams, W. J., M.A. Lectr.

4 Assts.

Engineering, Civil [Prof.

Purcell, P. F., M.A., M.A.I. Dub.

Lewis, F. E., B.A., B.E. Lectr.

Engineering, Elect., v. Physics

Engineering, Mechanical

Hogan, M. A., B.E., B.Sc. N.U.I., D.Sc. Lond. Prof.

* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.

*Warwick, F. W., B.A., B E. Lectr.
**Cormack, P., D.Sc., F.R.C.S.I. Demr.

English Lang. and Philology
MacSweeney, J. J., M.A. Actg. Lectr.

English Literature
Hogan, J. J., B.Litt. Ox., M.A. Prof.
MacCarvill, Mrs., M.A. Asst.

French and Romance Philol.
Chauviré, R., D. ès L. Paris, D.Litt. Prof.
Roche, L. P., M.A., D. ès L. Poitiers Lectr.
Harnett, Ellen, M.A. Asst.

Geology
Seymour, H. J., B.A., B.Sc. Prof.
O'Kelly, Kevin H., B.E., B.Sc. Asst

German
Macken, Mary, M.A. Prof.
Bowler, Margt., M.A. Asst.

Hebrew and Aramaic
Boylan, Very Rev. Patrick Canon, M.A., D.Litt. Prof.

History [Prof.
O'Sullivan, J. M., M.A., Ph.D.
Donovan, P. F., M.A. Asst.

History, Early, including Mediæval Irish
MacNeill, J., B.A., D.Litt. Prof.
Ryan, Rev. J., M.A. Lectr.

History, Modern Irish
Edwards, W. D., M.A., D.Litt. Lectr.

Irish, Early and Mediæval
Bergin, O., D.Litt. Wales, B.A., Ph.D. Prof.

Irish Lang. and Lit., Modern
O'Kiely, Cormac, M.A. Prof.
Hayes, M., M.A. Lectr.
Delargy, J. H., M.A. (Irish Folk-lore) Lectr.
Murphy, H. A. G., M.A. (Hist. of Irish Lit.) Lectr.
MacEntee, Mrs., M.A. Asst.
O'Lochlainn, C., M.A. Asst.
O'Searcaigh, S., M.A., Ph.D. Asst.

Irish Poetry, Modern
O'Farrelly, Agnes, M.A. Prof.

Italian Lang. and Lit.
McBride, P. P., Ph.D. Madrid, M.A. Lectr.

Law, v. *infra*

Mathematics
Egan, Rev. M. F., M.A. Prof.
Keating, G., M.Sc. Lectr.
Gormley, P. G., M.A., Ph.D. Jnr. Lectr.
Timoney, J. R., M.A. Jnr. Lectr.

Medicine and Surgery, v. *infra*

Music
Larchet, J. F., Mus.D. Prof.

Music, Irish
O'Dwyer, R. Prof.

Philology, Comp., and Sanskrit
(In abeyance) Lectr.

Philosophy
O'Keeffe, Rev. D., M.A. (Ethics and Politics) Prof.
Shine, Rev. J., M.A. (Logic and Psychol.) Prof.
Magennis, W., M.A. (Metaphysics) Prof.
Horgan, Rev. J., M.A., D.D. Lectr.

* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.
** Demonstrators similarly appointed.

Physics and Electrical Engineering
*Hackett, F. E. W., M.A., M.Sc., Ph.D. Prof.
*Allen, R. G., B.Sc., A.R.C.S.I. (Electro-Technol.) Lectr.
**O'Callaghan, P., A.R.C.S.I. Demr.

Physics, Experimental
Nolan, J. J., M.A., D.Sc. Prof.
Dowling, J. J., M.A., F.Inst.P. (Tech. P.) Prof.
Nolan, P. J., D.Sc., Ph.D. Lectr.

Physics, Mathematical [Prof.
Conway, A. W., M.A., D.Sc., F.R.S.
Keating, G., M.Sc. Lectr.

Physiology and Histology
O'Connor, J. M., B.A., M.D. Prof.
Kane, F., B.Sc., M.D., D.P.H. Asst.

Polit. Econ. and Nat. Econ.
O'Brien, G., B.A., D.Litt., B.L. Prof.
Prendeville, P. L., B.A., M.Comm. Jnr. Lectr.

Spanish Lang. and Lit.
Bannan, E. F., Ph.D. Madrid, B.A. Lectr.

Welsh
Jones, J. Ll., M.A., D.Litt. Wales, B.Litt. Ox. Prof.

Zoology
Butler, J. B., M.A., M.B., B.Ch., B.A.O. Prof.
Kane, Annie (Mrs.), M.Sc. Asst.

Agriculture

Agriculture
Drew, J. P., M.Sc., A.R.C.S.I. Prof.

Agricultural Botany and Bacteriology
*Gorman, M. J., A.R.C.S.I. Lectr.

Agricultural Chemistry
O'Sullivan, G. F., M.Sc. Jnr. Lectr.

Agricultural Zoology
Carroll, J., B.Agr.Sc. Lectr.

Animal Nutrition [Lectr.
Sheehy, E. J., D.Sc., F.R.C.S.I.

Forestry
Fitzpatrick, H. M., B.Agr.Sc. Acting Subst. Lectr.

Horticulture
Sherrard, G. O., A.R.C.S.I. Lectr.

Plant Breeding
Caffrey, M., A.R.C.S.I. Lectr.

Plant Pathology
..... Prof.
McKay, J., F.R.C.S.I. Actg. Lectr.

Soil Physics
Gallagher, P. H., D.Sc. Lectr.
7 Research Assts., 6 Assts. and Demrs.

Law

Constitutional Law, Internat. and Criminal Law [Prof.
McGilligan, Patrick, M.A., B.L.

Jurispr. and Roman Law
Binchy, D. A., M.A., Ph.D. Prof.

Law of Property and of Common Law
Ryan, M. J., B.E., B.Sc., LL.B., K.C. Prof.

Medicine

Mat. Med. and Therap.
Dillon, T. W. T., M.B., B.Ch., B.A.O. Prof.

Med. Jurispr.
McGrath, J., M.Sc., M.B., B.Ch., B.A.O. Prof.

* Profs. and Lectrs. of the former Royal College of Science who have accepted equivalent offices in Univ. College, Dublin, and have been appointed Profs. and Lectrs. of the N.U.I. in this College.
** Demonstrators similarly appointed.

Medicine

Moore, H. F., M.D., D.Sc. Prof.
Meenan, J. N., M.B., B.Ch., B.A.O., D.P.H. (Systemic Medicine) Prof.

Midwifery and Gynæc.

Farnan, R. P., M.B., B.Ch., M.A.O. Prof.
O'Kelly, J. J., B.A., M.B., B.Ch., M.A.O. (Obstetrics) Lectr.
White, R., F.R.C.S.I. (Gynæc.). Lectr.

Ophthalmology

Joyce, R. D., M.R.C.S., L.R.C.P., F.R.C.S.I. Prof.

Pathology and Bacteriology

O'Farrell, T. T., M.D., F.R.C.S.I., D.P.H. Prof.

Pharmacol. and Bio-Chemistry

Conway, E. J., D.Sc., M.B., B.Ch., B.A.O. Prof.

Public Health and Bacteriology

O'Kelly, W. D., D.Sc. (Pub. Health), M.D., D.P.H. Prof.

Surgery [Prof.

Barniville, H. L., B.A., M.D., M.Ch.
Meade, H. S., M.Ch., F.R.C.S.I. (Systemic Surg.) Prof.

Dentistry

Sheridan, E., M.D.S., F.R.C.S.I. (D. Surg.) Prof.
Potter, J. I., M.D.S. (D. Mech.) Prof.
Flanagan, L., B.D.S., M.B., B.Ch., B.A O. (Orthod.) Lectr.

GENERAL INFORMATION

The College was constituted by Royal Charter in 1909. The LIBRARY, 65,000 vols., includes the books of the late Catholic Univ. and R.U.I., the Palles Law Library (presented by Archbishop Walsh), the Stopford Green (History) Library and the Zimmer Celtic Library. MUSEUM: Ancient History. LABORATORIES include those of the late R.U.I. and of the buildings completed in 1919.

Under the University Education (Agriculture and Dairy Science) Act 1926 of the Irish Free State the functions of the Royal College of Science for Ireland have been transferred to Univ. Coll., Dublin. For the conditions of transfer, *see Yearbook*, 1929.

The LABORATORIES are fitted throughout with all modern appliances. Facilities for technical research in all branches of Chemistry, *e.g.* extraction of metals, production of metallic alloys, glazes, enamel, glass, pigments, paints, coal-tar derivatives, peat products, synthetic drugs. Engineering Pattern Shop, Foundry, Smithy, Machine Shop ; examples of types of engines aggregating 700 H.P. Hydraulics and Hydraulic Machinery Labs. Testing Machines recording up to 100 tons. Elec. Engin. Labs. with D.C. and A.C. machines. Extensive Physics, Agric., and Nat. Sc. equipment.

LIBRARY with 59,000 Scientific and Tech. books, 10,000 pamphlets, numerous maps, etc.

COURSES are provided for the degrees of the N.U.I. in all Faculties.

FEES for tuition, including College fees, annual, in degree courses : Arts or Comm.—£18 ; Science—£22 : 2s. to £28 : 12s. ; Engin.—£22 : 2s. to £26 : 16s. ; Law (in addition to Arts)—£8 : 8s. ; Med. (including Coll. Hospl.), whole period —£175 approx.

COLLEGE SCHOLARSHIPS, postgraduate in Arts or Science : 5 of £60.

RESIDENCE. Hostels for men and for women. Students are subject to supervision by Deans of Residence.

PUBLICATION. *Calendar*, Nov., 5s.

THE YEAR 1937–38

STUDENTS. Full-time: 2037, including graduates, 255. Part-time: 157; Certif. Music, 20; Architecture, 7; Law, 89; Agri., 45; Library Dipl., 5 (graduates); Dip. Social Science, 13; occasional, 12.

DEGREES OBTAINED. B.A., 188; M.A., 34; B.Comm., 84; B.E., 17; B.Arch., 3; LL.B., 8; B.Sc., 19; M.Sc., 6; D.Sc., 2; B.Agr.Sc., 9; B.Sc. Public Health, 9; M.B., B.Ch., B.A.O., 85; M.D., 5; M.Ch., 3; M.A.O., 1; B.D.S., 6; B.Mus., 2; Ph.D., 2; D.Econ.Sc., 1; M.Econ.Sc., 1; M.Comm., 1.

UNIVERSITY COLLEGE, CORK

Founded 1845

PRESIDENT—P. J. MERRIMAN, M.A., LL.D.
REGISTRAR—A. O'RAHILLY, M.A., B.Sc., Ph.D.
SECRETARY AND BURSAR—J. DOWNEY, M.Comm.
LIBRARIAN—T. A. CONROY, M.A.

Telephone: Cork 1371.

TEACHING STAFF

Accounting and Business Administration

McCarthy, C. P., M.Comm., F.S.A.A. Lectr.
Downey, J., M.Comm. Asst.
1 Demr.

Agriculture, v. *infra*

Anatomy

Fitzgerald, D. P., B.A., M.B., B.Ch., B.A.O. Prof.
Hamilton, W. D., B.Sc., M.D., M.Ch. Asst.
Donovan, E., M.D., M.Ch., M.A.O. Asst.

Archæology

Rearden, J. P., M.A., Ph.D., H.Dip. Ed. Prof.

Architecture [Lectr.

Hill, H. H., B.A. Liv., A.R.I.B.A.

Botany

Sperrin-Johnson, J. C., M.A., M.Sc., M.B., D.Litt. Prof.
Riordan, Elizabeth M., M.Sc., H.Dip. in Ed. Asst.

Chemistry

Reilly, J., M.A. Camb., D.Sc. Geneva and Dub., H.Dip.Ed., F.R.C.S.I., F.I.C., F.I.P. Prof.
O'Cinnéide, R., M.Sc. (in Irish) Lectr.
Drumm, P. J., M.A., Ph.D., D.Sc. Lectr.
Moynihan, E., M.Sc. Asst.
Kelly, D. F., M.Sc. Asst

Classics

Treston, H. J., M.A., D.Litt. Prof.
Porter, W. H., M.A. Dub. Lectr.

Dairy Science, v. *infra* Agric.

Dentistry, v. *infra*

Economics and Commerce

Busteed, J., M.Comm., F.S.S. Prof.
Larkin, Rev. W. P., M.A., Ph.D. Lond., D.Econ.Sc. Asst.

Education

Vaughan, Frances M., M.A., H.Dip. Ed. Prof.
Conlon, J., M.A., H.Dip.Ed. (in Irish) Lectr.
McSweeney, E. P., M.A. (Hist. of Ed.) Lectr.
McCarthy, B. G., M.A. Asst.

Engineering, Civil

Walsh, H. N., M.E., D.I.C. Prof.
Coffey, Patrick, M.E. Lectr.

Engineering, Municipal

Farrington, S. W., B.A., M.E. Lectr.

English

Corkery, D., M.A. Prof.

French

Servais, Yvonne Asste.

Geology and Geography

Swain, I., B.A., M.Sc., A.R.C.S.I. Prof.
O'Leary, Louisa, B.A. Asst.

German

Boyle, Mrs. Mary, M.A. Prof.

History

Hogan, J., B.A., D.Litt. Prof.
Pender, J., M.A. (in Irish) Lectr.
Henley, Pauline, M.A. Asst.

Irish Lang. and Lit.

O'Donoghue, T., D.Litt. Prof.
O'Donoghue, E., M.A. (Mod. Irish) Lectr.
Cullinane, C., M.A. Lectr.
Caomhánac, S., M.A. Asst.

Irish Music

Neeson, S., B.A. Lectr.

Law

Daly, G. J., B.L. (C. Law, Real Prop. and Eq.) Prof.
Murphy, C. K., M.A., LL.B., H.Dip.Ed. (Jur., Roman L. and Pers. Prop.) Prof.

Mathematics

Atkins, H. St. J., M.Sc. Prof.
McCarthy, M. D., B.A. (in Irish) Lectr.

Mathematical Physics

O'Rahilly, A., M.A., B.Sc., Ph.D. Prof.

Medicine and Surgery, v. *infra*

Music

Fleischmann, A. G., M.A., B.Mus. Prof.

Philosophy

O'Mahony, Rev. J. E., M.A., D.Litt. Prof.
Callaghan, Rev. John, M.A. Asst.

Physics [Prof.

McHenry, John J., M.A., D.Sc.
Kelly, C., M.Sc. (Exper. P.) Lectr.
1 Demr.

Physiology

Barry, D. T., M.D., D.Sc., D.P.H., F.R.C.S. Prof.
McCarthy, E. F., B.Sc., M.B. Asst.
Whelton, A., B.A., M.D. Asst.

Romance Languages, v. also French

..... Prof.

Sociology

O'Rahilly, A., M.A., B.Sc., Ph.D. Lectr.

Spanish

Healy, J. G., M.A., Ph.D. Lectr.

Zoology

Renouf, Louis P. W., B.A. Camb., Dip. Agric. Camb., M.Sc. Prof.
Murphy, Marjorie, M.Sc. Asst.

Agriculture

Agriculture

Boyle, C., M.A. Wisc., B.Sc., Ph.D. Lond., D.I.C. Prof.

Dairy Accountancy

Murphy, M., M.A., B.Comm. Lectr.

Dairy Bacteriology

Grimes, M., B.Sc. Tor., M.Sc., Ph.D. Iowa Lectr.
Dromey, L., M.Sc. Asst.

Dairy Chemistry

Pyne, G. T., B.Sc. Lond., M.Sc., Ph.D., A.R.C.S.I., F.I.C. Lectr.
McSweeney, D. T., M.Sc. Asst.
Ryan, J. J., M.Sc., A.R.C.S.I. Asst.

Dairy Engineering

McGrath, F. A., B.E. Lectr.

Dairy Technology

Lyons, J., M.Sc., N.D.A., N.D.D., A.R.C.S.I. Lectr.

O'Shea, M. J., B.Sc. (Dairying) Asst.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Hygiene and Public Health

Saunders, J. C., M.B., B.Ch., B.A.O., D.P.H. Prof.

Materia Med.

Donovan, T., M.A., M.B. Lectr.

Medical Jurisprudence

Riordan, M. J., M.B., B.Ch., M.A.O., F.R.C.S.I. Lectr.

Medicine

O'Donovan, J. M., M.Sc., M.D., F.R.C.P.I. Prof.

Mental Diseases

Honan, B. F., L.R.C.P. & S.I., D.P.M. Lectr.

Obstetrics and Gynæcology

Kearney, J. J., M.D., D.P.H., F.R.C.S.Ed. Prof.

Ophthalmology and Otology

O'Hea-Cussen, V., M.B., B.Ch., B.A.O., D.O. Ox. Lectr.

Pathology

Moore, A. E., M.B., B.Ch., B.A.O. Prof.

O'Donovan, W. J., M.B., B.Ch., B.A.O., B.Sc., D.P.H. (Clin. P.) Lectr.

Surgery

Dundon, J., M.B., B.Ch., B.A.O., F.R.C.S., F.R.C.S.I. Prof.

Kiely, P., B.Sc., M.D., M.Ch., F.R.C.S. Asst.

Therapeutics

Cantillon, E. V., M.B., B.Ch., B.A.O. Lectr.

Dentistry

Hackett, J. R., M.B., L.D.S. (D. Surg.). Lectr.

Roche, M.A., B.D.S. (D. Mech.). Lectr.

GENERAL INFORMATION

Queen's College, Cork, founded in 1845, became a constituent College of the N.U.I. in 1908.

LIBRARY: over 200,000 vols., including the d'Arbois de Jubainville collection of Celtic works, the Sharman Crawford Library, the Wilson Historical Library, the Sexton Anglo-Indian Library. MUSEUMS: Archæol., Ethnol., Geol., Mineral., Nat. Hist., Med.

LABORATORIES. Agr., Biol., Chem., Engin. (Testing, 200,000-lb. machine, and Hydraulics), Geol., Physics, Medical School. BOTANICAL GARDENS. OBSERVATORY with 8″ equatorial and 11″ photo. telescopes, seismograph, and 4″ siderostat.

Complete COURSES provided for all degrees and diplomas of the Univ., except 3rd and 4th yr. of B.Agr.Sc. course. Students are also prepared for the examns. of the Univ. of Lond. The Diploma in Dairy Science (2 yrs.' course) is necessary for all who wish to become creamery managers in Ireland.

Commerce students can do 6 mos.' practical work in railway or accountants' offices, etc.

FEES for tuition for complete degree course, including College fee: Arts,

£54 ; Science, £84 ; Eng., £84 ; Med., £200, including Hospl. fees ; Dentistry, £191, including Hospl. fees ; Music, £42.

RESIDENCE. Hostel for men and hostel for women (charitable trust, R.C. only) ; students are supervised by Officers of Residence.

EXTRA-MURAL WORK. Weekly Lectures to workmen.

PUBLICATIONS. *Calendar* (Easter), 6d. ; *Sessional Lists* (June), 6d.

THE YEAR 1937–38

RETIREMENT. Prof. Mary Ryan, M.A.

STUDENTS. Full-time, 927, including 117 graduates.

DEGREES OBTAINED. B.A., 49 ; M.A., 8 ; B.E., 9 ; B.Comm., 14 ; B.Sc., 9 ; M.Sc., 4 ; M.B., 26 ; M.D., 3.

UNIVERSITY COLLEGE, GALWAY

Founded 1849

PRESIDENT—Rt. Rev. Mgr. J. HYNES, M.A., B.D. (Vice-Chancellor).

REGISTRAR—Prof. J. MITCHELL, B.Sc., B.E., F.G.S.

BURSAR—Prof. T. WALSH, M.A., M.D.

Telephone: Galway 22.

TEACHING STAFF

Anatomy

Shea, S., M.B., B.Ch., B.A.O. Prof. 1 Demr.

Archæology, Celtic

Hynes, Rt. Rev. Mgr. J., M.A., B.D. Prof.

Chemistry

Dillon, T., M.A., D.Sc. Prof.
Clarke, Rosalind, B.A., D.Sc. Asst.
Barry, V., M.Sc. Asst.

Classics, Ancient

Fahy, Rev. T., M.A., B.D. Prof.
Heavey, Margaret M., M.A., H.Dip.Ed. Lectr.

Economics, Commerce, & Acctcy.

McBryan, F., M.A., H.Dip.Ed. Prof.
O'Buachalla, L., M.Comm., H.Dip. Ed. Lectr. (in Irish).

Education

Larkin, P., B.A., H.Dip.Ed. Prof.
MacFhinn, Rev. P. E., M.A., D.D., H.Dip.Ed. Lectr. (in Irish).
MacCabe, Rev. Br. L., B.A., H.Dip.Ed. Asst.

Engineering, Civil

Rishworth, F. S., M.A.I. Dub., B.A., B.E. Prof.
O'Connor, H. G., M.E. Asst.

Engineering, Electrical

Ryan, E. R., B.Sc., B.E. Asst.

English Language and Lit.

Murphy, J., M.A., Ph.D. Prof.

Geology and Geography

Mitchell, J., B.Sc., B.E., F.G.S. Prof.
O'Buachalla, L., M.Comm., H.Dip. Ed. Asst. (in Irish).

German

Shea, Mrs. Margaret M., M.A. Prof.

History [Prof.

O'Sullivan, Mrs. Mary J. D., M.A.
Kennedy, Sheila G., M.A., H.Dip.Ed. Lectr. (in Irish).

Irish, Old and Middle, and Celtic Philology

Ni Maol-Chroin, Caitlin, D.Ph. Bonn, M.A., H.Dip.Ed. Prof.

Irish, Modern

O'Raghallaigh, T., M.A., Ph.D., H.Dip.Ed. Prof.
O'Broin, T. P., M.A. Asst.
O'Maille, T. S., B.A., H.Dip.Ed. Asst.

Law and Jurisprudence

Gallagher, P. J., B.A., LL.B. Prof.

Mathematics

Power, M., M.A., B.Sc. Prof.
Newell, M., M.Sc. Lectr. (in Irish).
Ryan, E. R., B.Sc., B.E. Asst.

Mathematical Physics
MacCionnaith, E., M.A., M.Sc., A.R.C.S.I. Prof.

Medicine, v. *infra*

Natural History
Dinan, T. J., M.Sc. Prof.
Higgins, M. J., M.Sc., M.B. Asst.

Philosophy
O'Brien, Rev. F., O.F.M., Ph.D., D.D., B.C.L. Rome, Lic. Sc. Hist. Louvain Prof.

Physics [Prof.
O'Brolchain, C., M.Sc., Ph.D.

Physiology
Donegan, J. F., B.Sc., M.B., B.Ch., B.A.O. Prof.

Romance Languages
O'Brien, W., M.A. Prof.

Medicine

Med. Jurisprudence and Hygiene
Walsh, T., M.A., B.Sc., M.D., D.P.H., H.Dip.Ed. Lectr.

Medicine [Prof.
Fallon, W. M., B.Sc., M.D., D.P.H.

Mental Diseases
English, Adeline, M.B., B.Ch., B.A.O. Lectr.

Midwifery and Gynæcology
Morris, D. V., M.B., B.Ch., M.A.O. Prof.

Ophthalmology and Otology
O'Malley, C. C., B.Sc., M.B., B.Ch., B.A.O., D.O.M.S. Prof.

Pathology
Walsh, T. (v. Med. Jur.) Prof.

Surgery
O'Malley, M. G., M.B., B.Ch., B.A.O., F.R.C.S. Prof.

Therapeutics, Mat. Med., and Pharmacol.
McDermott, E. N., B.Sc., M.D., F.R.C.S.I. Prof.

GENERAL INFORMATION

Queen's College, Galway, opened in 1849, became a constituent College of the N.U.I. in 1908.

LIBRARY: 50,000 vols. LABORATORIES: Physics, Chem., Biol., Physiol., Path., Geol., Engin. MUSEUMS: Nat. Hist., Mat. Med., Gynæc., Anat. Dept.

DEGREE COURSES in Arts, Celtic, Science, Law, Med., Engin., Commerce. Courses for Diplomas in Educn., Irish Studies, Commerce.

Med. degree students are required to spend 1 yr. at a Metropolitan Hospl. after a 4 yrs.' course in the College and 2 yrs. in the Galway Hospitals.

FEES. College, £2 : 10s. p.a. (women, £2 p.a.). Inclusive approximate fee for complete Degree course: Arts, 3 yrs., £26; Science, 3 yrs., £36 to £50; Law, at least 6 terms after B.A., £12; Medicine, 5 yrs. (including 2 yrs.' General Hospital fees), £85; Engineering, 3 yrs., £53; Commerce, 3 yrs., £26. Post-graduate or research course, £4 to £6.

SCHOLARSHIPS open to students of the Coll. on graduation: 4 of £40.

RESIDENCE. The cost of board and lodging for a student varies from 25s. to 30s. a week. Every student is required to register under a Dean of Residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a Lady Supt., who exercises supervision over their conduct within the precincts of the College.

There is an APPOINTMENTS BOARD consisting of the President, the Deans of the Faculties and the Registrar.

PUBLICATIONS. List of licensed lodging-houses, free; *College Calendar* (1s. 4d.); Regns. for Degrees and Courses (8d.); Regns. for Scholps. and Diploma in Educn. (2½d.); Gaeltacht Scholarships (1½d.); Univ. Examn. Papers (post free, 1s. 8d.), from O'Gorman and Co., Galway

THE YEAR 1937–38

RETIREMENT. Prof. P. A. Arkins (Law and Jurisprudence).

DEATH. Prof. T. O'Maille (Irish Language, Philology and Lit.).

STUDENTS. Full-time: 660, including 81 graduates. Part-time: 11, including no graduates.

DEGREES OBTAINED. B.A., 42; M.A., 5; B.Sc., 11; M.Sc., 1; M.B., B.Ch., B.A.O., 11; M.D., 1; B.E., 10; B.Comm., 21; Dip. in Ed., 15; H.Dip. in Ed., 30.

CANADIAN UNIVERSITIES

In *Nova Scotia*: ACADIA, DALHOUSIE, KING'S COLLEGE, ST. FRANCIS XAVIER. In *New Brunswick*: NEW BRUNSWICK, MOUNT ALLISON. In *Quebec*: BISHOP'S COLLEGE, LAVAL, MCGILL, MONTREAL. In *Ontario*: MCMASTER, OTTAWA, QUEEN'S, TORONTO, TRINITY COLLEGE, VICTORIA, WESTERN ONTARIO. *Western Provincial Univs.*: MANITOBA, SASKATCHEWAN, ALBERTA, BRITISH COLUMBIA.

GENERAL DESCRIPTION

[Contributed by A. Stanley Mackenzie, late President of Dalhousie Univ. An account by President Walter C. Murray, of the Univ. of Saskatchewan, of "University Development in Canada," is to be found in the *Trans. Roy. Soc. Can.*, Third Series, 1922, vol. xvi. See also his article on "State Support and Control of Universities in Canada," in *Trans. R.S.C.*, Sect. II., p. 19, 1925. See also "American Influence on the Higher Education of Canada," *Trans. R.S.C.*, Sect. II., 1930, by Sir Robert A. Falconer, President of the Univ. of Toronto, and by the same author, "Higher Education in Canada," in the *Book of Canada*, published by the Canadian Medical Association, Toronto, 1930, pp. 139-151.]

THE word "university" is used very loosely in Canada, and in the following sketch a number of institutions which are in reality Colleges will be referred to. In this book twenty-one are listed, twenty-three in the *Canada Year Book*. It is probably not true to say that Canada has evolved a distinctive type of Univ.; and yet Canadian higher institutions of learning differ in many ways from the corresponding institutions in the British Isles and in the United States. One might divide Canadian Univs. into (1) those which are supported and controlled by a religious group: Laval, Montreal, Ottawa, St. Francis Xavier, St. Joseph's, by the Roman Catholics; King's, Bishop's, Trinity, by the Church of England; Mount Allison, Victoria, by the United Church of Canada (a union of former Congregationalists, Methodists, and part of the Presbyterians); Acadia, McMaster, by the Baptists; (2) those that receive State support and are subject more or less to State control: New Brunswick, Toronto, Manitoba, Saskatchewan, Alberta, British Columbia; and (3) those that are independent of Church and State and depend upon private benefactions: Dalhousie, McGill, Queen's, Western Ontario. In order to understand, however, the great diversity among the various universities, even among those in any one group, some reference to the history of the rise and growth of university education in Canada must be made.

All the older colleges, with the exception of Dalhousie and McGill, were established by the Churches, to meet the obvious need for native ministers and teachers in a new and far-flung country. The next step was an appeal to the State, often to both the Local Government and the

Home Government, for a grant-in-aid, which was usually made. As in practically all political divisions, except Quebec, there were other strong religious bodies besides the one to receive this grant, there was before long in the nature of things resentment by these other bodies, and religious and political strife was engendered. In many cases the College Question was inextricably mixed up with the struggle of the people for responsible government, for democratic rule instead of oligarchical Councils. The changes in the Universities run parallel in the main with the political development of Canada.

THE FRENCH COLLEGES. The oldest University in Canada is Laval, in Quebec City, growing out of the founding of a Seminary there in 1663. It is modelled after the French universities, and is a group of professional and graduate schools, and has wide degree-granting powers. There was for many years a branch of Laval in Montreal, but in 1920 it became a separate entity under the name of the University of Montreal. It, like Laval, is intimately associated with the Church, in the firm belief that education cannot be dissociated from religion. Both receive State aid, but are not under State control. The undergraduate work preliminary to these two universities is done by twenty-four Classical Colleges scattered through the Province of Quebec. These give the Bachelor degree. These institutions have altered little in their general character with the changes in the political life of the Dominion. Ottawa combines the University and the Classical College. Closely akin to the Classical Colleges of Quebec, but not necessarily associated with Laval and Montreal, is a group of Maritime colleges: St. Joseph's and St. Thomas' in New Brunswick, St. Mary's and St. Anne's in Nova Scotia, and St. Dunstan's in Prince Edward Island. St. Francis Xavier and Mt. St. Vincent, Halifax, recently chartered, are the only Roman Catholic colleges not of the French type, being more like the non-Catholic institutions.

THE KING'S COLLEGES. The next stage in the development of higher education in what is now Canada was due to the arrival of the Loyalists from the American colonies. These people belonged mainly to the Established Church of England, and, though intensely loyal to the Mother Country and intolerant of republicanism, were yet imbued with advanced ideas of independence and democracy, and immediately made their presence felt. They wanted not only educational advantages for their children, but they wanted educational institutions which would be under the Church of England, believing that loyalty to Britain was almost a monopoly of those of that faith. There was thus introduced a political factor into the educational movement which had far-reaching consequences. The coming of the Loyalists led to the founding of what are called the King's Colleges. The first of them, and the only one which retains the name, was King's College, which was established at Windsor, Nova Scotia. In 1923 it removed to Halifax, and is intimately associated with Dalhousie. The nature of the association is that students in the Faculty of Arts and Science must register as students of the University, but may enrol as members of King's College, where they enjoy a corporate life similar to that of a college of Oxford. The students of the two institutions are a unit for instructional purposes

(except for certain subjects of the freshman year, where the King's students form a section by themselves), and the teaching staffs paid from the funds of each institution form a common Faculty. The University grants all degrees. The Faculty of Divinity of King's has no part in this association. The second King's College was established in 1800 as the College of New Brunswick, at Fredericton. On receiving a royal charter in 1828, it took the name of King's College (v. *infra*). The third, King's College, Toronto, received a similar charter in 1827. The precursor of these three colleges was undoubtedly King's College, New York, which, since the Revolution, has borne the name of Columbia University. All these Colleges were closely modelled after Oxford. The three Canadian King's Colleges practically all received grants, either in lands or money, or both, from the Imperial and Provincial Governments. In order to understand the cause of the educational struggles which took place in the first half of the nineteenth century it must be pointed out that their charters gave the control of these colleges to a Board composed mainly of officials of the Crown and adherents of the Church of England. The Church had accordingly a controlling voice in the College, and claimed exclusive privileges. The College was in reality a private institution receiving State aid, and those who were not members of the Church of England, and they were far in the majority, were thus taxed to support it and were cut off, in some cases entirely, from equal educational privileges. It is not difficult to see that this must inevitably have led to bitter controversy and strife. As the Governing Boards of the Colleges were largely identified with the oligarchical governing Councils of the Provinces, it is evident also that the educational and political causes would be inextricably mixed in the struggle of the many against the exclusive rule of the few.

THE SCOTTISH COLLEGES. The third stage was ushered in by the insistence of other religious denominations upon equal rights with the Church of England in the control of colleges already established, or upon being allowed to have colleges of their own with government grants as in the case of the King's Colleges. The lead was again taken in Nova Scotia. Dr. Thomas McCulloch, a Scot and a Presbyterian, had instituted at Pictou early in the nineteenth century Pictou Academy, which, though without degree-granting powers, acquired a high reputation for the scholarship of the men who were trained there (one was Dawson, the great Principal of McGill University). He was such a bonny fighter that, in spite of the bitter opposition of Governor and Council he received a provincial grant for Pictou Academy in 1819. Similar attacks on the existing state of affairs were made by Scotsmen in New Brunswick and Ontario. About this time Lord Dalhousie entered the arena, and, by the founding of Dalhousie College, broke for all time the ring of King's Colleges. He was another Scot, one who had experience as a General in the Napoleonic wars. During the war with the United States in 1812–14, the Province of Nova Scotia, of which he was then the Lieutenant-Governor, became possessed of a sum of about £11,000, which he used to found a college which was to be a direct protest against sectarianism and special privilege. By its Charter

it was to be " open to all occupations and sects of religion." It was also to be " on the same plan and principle as that of Edinburgh." Its founding in 1818 marks, therefore, one of the most important points in the development of Canadian higher education, the introduction of the Scottish type of university, where learning and scholarship were accented rather than the fine art of living, and where residential life was not looked upon as essential. Lord Dalhousie made one great mistake; he placed his infant college in the hands of some of the same officials as were the Board of King's College, and they kept its doors shut for twenty years. Their hands were forced, however, in 1838, and Thomas McCulloch became its first President. On his death, in 1843, the college was again closed, as the necessary financial support was not forthcoming, and it remained closed until 1863, when the spirit of union was taking hold of Canada in educational as well as political matters. The early history of McGill University is very similar to that of Dalhousie. It received its first charter, a Provincial one, in 1801, as the Royal Institution for the Advancement of Learning. As McGill College, it received a Royal Charter in 1821, subsequent to a bequest of land and the sum of £10,000 by James McGill, a Scottish resident of Montreal. It was also non-sectarian and modelled on Edinburgh, and for a number of years had a very precarious existence, and was not able to live up to the hopes of its founder. With the appointment of Dawson as its Principal in 1855 began its rapid and brilliant career. Queen's (v. *infra*) is the third of the Canadian universities of the Scottish type.

THE SECTARIAN COLLEGES. There followed in rapid succession the establishment of purely denominational colleges, and it is interesting to note that it was during the period of most intense political strife. Baptists founded Acadia, at Wolfville, N.S., in 1838; Methodists, Mount Allison, at Sackville, N.B., in 1858; Scottish Roman Catholics, St. Francis Xavier, at Antigonish, N.S., in 1855; French Roman Catholics, St. Joseph's, at Memramcook, N.B., in 1864; not to mention others which have since lost their identity. All these are in the Maritime Provinces. In Ontario were founded Victoria, at Cobourg, by Methodists, in 1841; Queen's, at Kingston, by Kirk Presbyterians, in 1842; Knox, at Toronto, by Free Presbyterians (now purely a Divinity School), in 1843; McMaster, at Toronto, by Baptists, in 1857; Trinity, at Toronto, by Anglicans, in 1851; and Ottawa, by Roman Catholics, in 1849. In Quebec we find Bishop's College, founded in 1843, by the Anglicans. These denominational colleges demanded, and in most cases received, a share of State aid. In time the obvious wastefulness of this use of State money led to its discontinuance, and also led to efforts to find a better basis for higher education.

THE ATTEMPTS FOR UNION. From 1841, when the union of Upper and Lower Canada took place, to 1867, when the Dominion of Canada was formed, the spirit of union was abroad, and following this period we see a uniting of various subdivisions of Presbyterians and again of Methodists. Efforts to unite groups of colleges are much in evidence during this period. Efforts to unite Dalhousie and King's in Nova Scotia, which had begun in 1823, and which had been renewed many

times, failed until 1923. The co-operation of Presbyterians and Congregationalists who closed their own small Arts Colleges, enabled Dalhousie to reopen its doors in 1863. Several attempts to bring about a federation of the colleges in Ontario begun in 1843 failed until 1887.

THE LONDON UNIVERSITY TYPE. One of the many schemes of union proposed was the foundation of universities on the model of the University of London, with only examining and degree-conferring powers, which powers the constituent colleges were to hold in abeyance. An effort to initiate such a university in Toronto, in 1853, failed. So did the proposed founding of the University of Halifax, in 1876, fail. A similar effort in Winnipeg succeeded. The University of Manitoba, thus established, passed from being a " paper " university to the giving of instruction, first in Science, then in some departments of Arts also, then to the possession of professional schools, and finally to the full status of a State University.

THE TORONTO FEDERATION. A brief sketch of the history of the University of Toronto may serve to bring out the various stages through which the Canadian problem of higher education passed, and show the interesting form of federation which has proved so successful there. As stated above, King's College, Toronto, was given a Charter in 1827. It received a grant of land and was purely sectarian, Church of England. In 1837 its Charter was amended by modifying in some degree this Church control. Then followed the foundation of Victoria, Queen's and Knox (v. *supra*). King's was opened in 1843. Protests from other denominations brought about its secularization in 1849, its name being changed at the same time to the University of Toronto, and its control vested in the State. The Faculty of Divinity was abolished, and all denominational colleges were to be admitted to affiliation only as Divinity Schools. This refusal to recognize religion in education led to the founding of still more colleges (Trinity by the Anglicans, in 1851, St. Michael's by the Roman Catholics, in 1852, and McMaster by the Baptists, in 1857, all in Toronto),[1] and to the continued opposition of Queen's and Victoria. In 1851 another change was made, using the University of London as a model. All teaching work was withdrawn from the University, this being relegated to affiliated colleges. For this purpose a new body was formed, University College, and the Faculty of Arts transferred to it, and the Faculties of Law and Medicine discontinued. The University was to manage the finances, conduct examinations and confer degrees. The teaching was to be done by Federated Colleges, of which University College was to be the first. It was to be undenominational. The denominational colleges did not enter into the scheme, and it failed to bring about the federation which was hoped for. Various causes led to the federation of 1887. In the first place, the Government withdrew in 1868 its grants to the denominational colleges. In the second place, the growth of science and the introduction of the conception of research and post-graduate work into the universities increased enormously the cost of maintaining educational institutions. The University of Toronto (and University College) felt the pinch equally

[1] McMaster removed to Hamilton, July 1930.

with the denominational colleges, for its only source of revenue was from the Crown lands with which King's had been originally endowed. It accordingly applied to the Legislature for a grant from the Provincial treasury. Naturally the competing denominational colleges strenuously objected to this. But the spirit of union in Canada, which showed itself in the political union of 1867, was called upon, and not in vain, for in 1887 a scheme of Federation was accomplished. The essence of the scheme is a group of Arts or Divinity Colleges gathered about a central University, supported and controlled by the State, the University conducting examinations, conferring degrees (except in Divinity), and giving the instruction in those branches of learning which are costly to conduct, or are taken by only a few students, or are professional in character. The division of subjects between the constituent Colleges and the University was set forth in the Act of 1887, but provision was made for change as future needs should dictate. Provision was also made for the affiliation of purely Divinity Schools like Knox and Wycliffe. All these constituent Colleges and Divinity Schools were given representation on the governing bodies of the University. Victoria and St. Michael's and Trinity entered the Federation, the former moving from Cobourg to Toronto in order to do so; but Queen's and McMaster elected to remain independent. The University is operating to-day under the Act of 1906. The only change from the Act of 1887 which need be referred to in this sketch is that the University is no longer administered through a department of Government, but by an independent Board of Governors appointed by the Lieutenant-Governor in Council. Moreover, academic appointments can be made only on the nomination of the President of the University. By these means the University was removed from the suspicion of political and sectarian interference, and a high character in its academic staff assured.

The Western Universities. It remains to deal in general with the State University, that is, the type of university supported and controlled by the State. The oldest of these is the University of New Brunswick, chartered as King's College, Fredericton, in 1828, under the control of the Church of England. It received its present name in 1859, when it was secularized and put under the direct control of the Department of Education of the Government of the Province, and, at the same time, given very modest financial support. The form of State University developed in Ontario has already been described. The four Western Universities are, however, those which have carried to its completion the State University Idea. This idea is that the State must provide and support university education for all its people, irrespective of the part which may be played by private interests, whether ecclesiastical or otherwise. The idea carries the corollary of State control. It is a natural extension of the idea of free schools, which were established in Nova Scotia in 1864 and in Ontario in 1871, and carries to its logical conclusion the doctrine of democratic government, that all its citizens must be educated. Closely associated with the idea of the State University is the conception that the University must return service to the State. The governments expect to call for and to receive guidance

and expert advice from the academic staff of the University, and look to them for the study and investigation of the natural resources of their Provinces. The Universities also carry the knowledge so acquired to every portion of the Province through a highly organized form of Extension service. This attitude is obviously not of British origin, but came to Canada from the United States. In the four Western Provinces, Manitoba, Saskatchewan, Alberta, and British Columbia, the respective governments have carried the idea to its logical conclusion by confining to the State University the power of conferring degrees. The constitutions of these four Universities are modelled so largely upon that of Toronto that it is unnecessary to refer to them in detail. Manitoba University is very like Toronto in that it has constituent Arts Colleges, as well as affiliated Divinity and Junior Colleges; the same thing is taking place in the other three. Notwithstanding the youth of these Universities (Alberta opened in 1908, Saskatchewan in 1909, Manitoba in practically its present form in 1900, and British Columbia in 1915), they have all grown to be strong, vigorous institutions serving well their constituencies.

As the years have gone by, all these institutions, while maintaining their individuality and evidences of their original form, have tended to uniformity in many important regards. Thus, they all require four years for the Bachelor (Pass) degree in Arts or in Science. Again, they have a common standard of preliminary education for admission to the courses leading to these degrees. This standard is that attained by a satisfactory completion of three years of a High School Course superimposed on eight years in the Common Schools. This standard is called Junior Matriculation. If a pupil has successfully completed the fourth year of the High School Course in the proper subjects, or passes the equivalent Senior Matriculation examination, he can enter the second year and complete the course for the degree in three years. This practically amounts to saying that High Schools or Collegiate Institutes which have a fourth year course give in that year about the same work as is done in the first year of the Univ. course for the Pass degree. In Ontario the High School Course leading to Junior Matriculation standard covers four years instead of three.

JUNIOR MATRICULATION. Students can satisfy the Entrance requirements of the Univs. by the presentation of a satisfactory certificate of the results of examinations conducted either by Universities or by Provincial Departments of Education, provided such certificate shows a Pass in the Required Subjects of matriculation. These required subjects differ somewhat from one Univ. to another. Most of the Univs. require for the B.A. degree the following six subjects: (1) English, (2) History, (3) Algebra (through quadratics), (4) Geometry (at least four books), (5) Latin, (6) a second foreign language. There is in nearly every Univ. a seventh subject; it is usually a science (in some cases specified, in others elective), but in many cases a third foreign language is accepted instead.

Where a course in Pure Science is given leading to the degree of B.Sc. the requirements are as above, except that the two foreign languages are French and German.

There is much more variation in the requirements for entrance to the courses in Applied Science or Engineering; but the best schools of Applied Science require in addition to Junior Matriculation at least a year in Arts and Science.

The curriculum for students of Medicine has been undergoing a change in all the Canadian Schools. In general the course of study requires 7 years following on Junior Matriculation. In some of the Univs. 6 of these years must be taken in the Medical School. In others the first 2 years (which are largely Pure Science) may be taken in any recognized Arts College.

There has been a similar advance in the standard of preliminary education required of students seeking admission to the study of Law. In the chief schools at least 2 years of Arts is required. At all the Schools the Law course proper extends over 3 years.

The standard of preliminary education required of students entering upon the study of Dentistry is the equivalent of 2 years in Arts and Science, and is practically identical with that for Medicine.

ARTS COURSE. Speaking very generally, one can say that about one-half of the course for the degree of B.A. is prescribed and the other half elective; but these elective subjects are commonly to be distributed among certain broad groups of allied subjects in a specified way, varying with the individual Univs. The prescribed work includes English, History, two foreign languages, one of which is usually Latin (British Columbia and Manitoba require only one), Philosophy, Mathematics, and Science. In the case of the B.Sc. degree in Pure Science the two foreign languages required are French and German.

A feature of Canadian Univs. which distinguishes them from the typical Univs. of the United States is the provision made for the ambitious student and the student who wishes to specialize during his course for the Bachelor degree. This is accomplished by the provision of the system of Honour courses. In this system a student who shows the necessary aptitude is permitted to take special classes, which in some instances are in extension of the regular classes, and in other cases are restricted to Honour students. In some Univs. the Honour classes are confined to the third and fourth years of the course; in others, as in the case of Toronto, they are given in all four years, and there is also a special Honour matriculation. In general, also, the number of prescribed classes is reduced, so that the student not only goes more deeply into each subject, but specializes to a greater extent than the Pass man is allowed to do. On the completion of an Honour course the student receives a degree with Honours. No small measure of the academic success of Canadian students in post-graduation work in home and foreign Univs. is to be attributed to this system.

By a proper combination of studies a student can complete a combined course for the degree in Arts or Science and that in a professional faculty in a year (in some cases, two years) less than the sum of the years required for each.

LENGTH OF SESSION. The Canadian Univs. open about the end of September and close in May or early in June. The average length of

the session is 32½ weeks for all faculties, except those of Medicine and Dentistry, which are 4 weeks longer. Of the 32½ weeks, 26 are given up to actual lecturing, and the remainder to vacations, examinations, and closing exercises.

CONSOLIDATION OF THE COLLEGES IN THE MARITIME PROVINCES. During the last few years a great deal of attention and consideration has been given to this question, which in one form or another is a century-old problem (see article by Murray referred to above). It has come prominently to the fore now because of the impossibility of so many small institutions (mostly sectarian) in a region containing only a million people being able to keep pace with the financial demands of modern education. The Carnegie Foundation for the Advancement of Teaching was invited to send experts to make a survey of the situation. They did so, and made a report, in which they advised that all these institutions should move to Halifax and join with Dalhousie, already there, in forming a strong central University. Each constituent was to maintain its name, identity, individuality, organization and funds, but give up its examining and degree-granting powers (except in Divinity) to the Univ. The Colleges should not teach the scientific subjects nor those subjects for which there would be a small demand, which should be given by the Univ. In general, the Colleges should restrict themselves to the Humanities. The Univ. would conduct all professional schools. The Colleges were to be residential. It will be seen that the scheme was something between that of Oxford and that of Toronto. It was a fair inference to be drawn from the report that, if the various institutions in question would get together, and the governments concerned make a grant-in-aid to the central Univ., the Carnegie Corporation of New York would give the scheme very generous aid. Representatives of the educational institutions and interests held many conferences and agreed upon a scheme of consolidation, and the Carnegie Corporation promised a gift of $3,000,000. At this stage the scheme was halted, for the time being at least, by the refusal in succession of the Univ. of New Brunswick (non-sectarian), St. Francis Xavier's College (Roman Catholic), and Acadia College (Baptist) to enter it. In the meantime, King's College (Anglican) moved from Windsor to Halifax, and entered into a close association with Dalhousie Univ. (non-sectarian). The students of both institutions are taught as one body by the combined staffs, except in certain freshman classes (and in Divinity). King's holds in abeyance her degree-granting powers (except in Divinity), and the Univ. conducts all examns. and grants degrees. On the understanding that King's would raise the sum of $400,000 for the erection of the necessary residential buildings, the Carnegie Trustees undertook to provide $600,000 to be used as an endowment for the payment of an instructional staff for the combined students. The necessary sum was raised and the buildings erected. Mount Allison Univ. (United Church) has recently decided to remain at Sackville (N.B.). The original scheme of confederation having thus failed, the Carnegie Corporation offer has lapsed. There is no degree-granting educational institution in the adjoining colony of Newfound-

land, but the various interests there are very favourable toward the general scheme of a confederation of the educational forces of Eastern Canada. They have organized a Junior College at St. John's for the first two years of the work for the Arts degree. The Carnegie Corporation made a grant-in-aid for a period of five years.

DEGREES IN DIVINITY FOR STUDENTS BELONGING TO THE ANGLICAN CHURCH IN CANADA. The Church Universities and Theological Colleges in Canada have entered into an agreement to adopt a uniform standard for degrees in Divinity. All such degrees are now conferred only in accordance with Canon X of the General Synod of Canada, and only on examn. by a Joint Board, including the Archbishop of Rupert's Land (Chairman), and representatives of the Univs. of King's, Bishop's, and Trinity Colleges, Montreal Diocesan, Wycliffe (Toronto), Huron (London, Ont.), St. John's (Winnipeg), Emmanuel (Saskatoon), St. Chad's (Regina), Anglican Theol. Coll. of B.C.

NOVA SCOTIA TECHNICAL COLLEGE, HALIFAX. This institution represents the principal direct effort of the province in education of University grade. It is supported entirely from provincial revenues. Through a co-operative agreement, a uniform engineering course covering the work of the first, second and third years is carried out in the Univs. of Acadia, Dalhousie, King's, Mount Allison, St. Francis Xavier, St. Mary's College, and Memorial Univ. Coll., Newfoundland. On successful completion of this course, the student proceeds to the Technical College without examn. for the professional work of the last two years of the 5 yr. course. Here the studies are differentiated and the student selects either Civ., Elec., Mech., or Mining Engineering. The degree given is that of B.E. The Technical Coll. confines its attention entirely to the work of the last two years. It is equipped principally for teaching the engineering courses and commercial testing of industrial materials and natural resources, and incidentally for scientific research. Tuition fees: $75 p.a. for British citizens, $150 for those of other origins. Twenty county scholarships of $75 p.a. are available for Nova Scotians. The buildings and equipment represent a provincial investment of about $600,000.

THE CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING, 522 Fifth Avenue, New York City. The object of the Foundation, which was established in 1906 with resources which now amount to 30 million dollars, is to provide retiring allowances and pensions, and, "in general, to do and perform all things necessary to encourage, uphold, and dignify the profession of the teacher and the cause of higher education." It operates both in the U.S.A. and in Canada. The list of those eligible to receive retiring allowances and pensions from the Foundation includes the following classes of persons: (1) A person in an institution on a specified list who (*a*) is 65 years of age and has served not less than 15 years as professor, or not less than 25 years as instructor or as prof. and instr., or (*b*) has served 25 years as prof. or 30 years as instr. or as prof. and instr., and who is shown by medical examn. to be entirely unfitted by disability for continuing the work of teacher; (2) a widow who has for 10 years been the wife, married before retirement, of any teacher of class (*a*) or (*b*). The direction of the Foundation is entrusted to a board of 25 trustees, mostly university and college presidents.

The list of institutions enjoying privileges under the rules of the Foundation includes ALBERTA, BRITISH COLUMBIA, DALHOUSIE, MCGILL, MANITOBA, QUEEN'S, SASKATCHEWAN, and TORONTO. Up to June 1938, 2791 allowances and pensions had been granted, including 152 in Canada and 5 in Newfoundland.

In addition to its work in connexion with the payment of pensions the Board of Trustees has undertaken the issue of various publications and their

free distribution. Among these are bulletins on Medical Education in Europe, Education in the Maritime Provinces of Canada, Games and Sports in British Schools and Universities, and the Quality of the Educational Process in the United States and Europe.

THE NATIONAL COUNCIL OF EDUCATION of Canada was organized at a Conference on Education in relation to Citizenship held in Winnipeg in 1919. With the cooperation of Universities and Departments of Education the Council is developing a Bureau of Education, and has organized a system of National Lectureships whereby eminent lecturers are brought from Great Britain to Canada. The Bureau facilitates exchange of information between the provincial depts. of Education, the diffusion in Canada of ideas and information from outside the Dominion and *vice versa*. Triennial Conferences on Education are held, the next of which will be in Toronto in 1940. Executive Secretary, Major Fred. J. Ney, M.C., LL.D., 43 St. George St., Toronto (now headquarters for Canada); other offices at 411 Power Building, Winnipeg, 70 Sun Life Building, Montreal.

NATIONAL CONFERENCE OF CANADIAN UNIVERSITIES. President for 1937–1939—Chancellor H. P. Whidden, B.A., D.D., LL.D., D.C.L., F.R.S.C.

The Seventeenth Conference was held in Queen's University, Kingston, Ont., on May 31-June 1, 1937. Fifteen Universities, six Colleges, the National Research Council and the National Association of State Universities were represented. The subjects discussed were: Is the Arts Course losing ground?; The Effect of Summer Schools on the Standards of Faculties of Arts; Safeguarding Matriculation Standards; The Necessity of Compulsory Latin for Arts Matriculation; Can University Statistics be improved?; The Differentiation and Distribution of Academic Work among Canadian Universities; The Workers' Educational Association; Honours Courses: From the Universities' Standpoint—From the Schools' Standpoint.

The next meeting will be held in May 1939 at McGill University, Montreal.

The Reports of the Conferences may be obtained from the Secretary, Dean K. P. R. Neville, University of Western Ontario, London, Ontario.

STATISTICAL TABLES relating to Canadian Universities and Colleges are published by the Dominion Bureau of Statistics, Ottawa, in its Annual Survey of Education in Canada, price 50c.

*

ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA

Founded 1840

PRESIDENT—F. W. PATTERSON, D.D., LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—M. R. ELLIOTT, B.A., M.D. Harv.

PROVOST—F. E. WHEELOCK, B.A., Ph.D. Yale.

REGISTRAR—W. L. ARCHIBALD, M.A., Ph.D.

BURSAR—C. E. CHISHOLM.

LIBRARIAN—MRS. MARY K. INGRAHAM, M.A.

TEACHING STAFF

Art, v. *infra* School of Fine Arts

Biology

Perry, H. G., M.A. Harv., D.Sc. C. F. Myers Prof.
Roscoe, Muriel V., M.A., Ph.D. Radcliffe Prof.
Bayne, P. McE., M.A. Tor. Prof.
De Witt, C. E. A., B.A., M.D., C.M. McG. Med. Officer & Instr.

Chemistry

Hill, D. U., M.A., Ph.D. Yale Wallace Prof.
Small, C. W., M.A. Tor. Assoc. Prof.
Linton, E. P., B.Sc., Ph.D. Tor. Asst. Prof.

Classics

Thompson, W. H., M.A., Ph.D. Yale Barss Prof.
Dawson, C. M., B.A. Camb. Asst. Prof.

Economic Science

Balcom, A. B., B.Sc., M.A. Harv., D.C.L. Wallace Prof.
Mosher, J. I., M.A. Harv. Asst. Prof.

Education

Robinson, E. W., M.A. Prof.
Grant, Marion E., M.A., D.Pæd. Asst. Prof.

Engineering [I. Curry Prof.

Wheelock, F. E., B.A., Ph.D. Yale
Steeves, R. T., M.A. Assoc. Prof. & Acting Dean.
Cain, B. N., B.E. Instr.

English Lang. and Lit.

Rhodenizer, V. B., M.A., Ph.D. Harv. Morse Prof.
Thomas, H. F. S., M.A. Tor., Ph.D. J. Hopk. Assoc. Prof.
Sipprell, H. F., M.A. Harv. Asst. Prof.

Geology

Bancroft, M. F., M.A. Yale King Prof.

German

Ross, Roy, M.A. Yale Prof.

History

Dadson, T. M., M.A., Ph.D. Chicago Curry Prof.
Longley, R. S., M.A., Ph.D. Harv. Alumni Prof.

Household Science

McNally, Frances M., B.S., M.A. Dean of School of H.Sci.

O'Blenes, Clarabel, B.Sc. Asst. Prof.
Cavenagh, Christine M., B.Sc. Asst. Prof.
MacPherson, Helen M., B.A. Instr.
Gillmor, Heloise, B.Sc. Instr.
Moore, Nancy, B.Sc. Asst. Dietitian.
Coulstan, Ena M., B.Sc. (H. Econ.) Asst. Dietitian.

Library Science [Instr.
Ingraham, Mrs. Mary K., M.A.

Mathematics [White Prof.
Jeffery, R. L., M.A., Ph.D. Cornell
MacPhail, M. St. J., D.Phil. Ox. Instr.

Osteology and Physiology
De Witt, C. E. A., B.A., M.D., C.M. McGill Instr.

Physical Education
Osborne, W. T., M.A. Corn., B.P.E., Springfield Y.M.C.A. Coll. Shand Prof.
Kelley, F. G., B.A. Instr.

Physics [I. Curry Prof.
Wheelock, F. E., B.A., Ph.D. Yale
Fisher, R. M., M.A. Clark Assoc. Prof.
Chipman, R. A., M.Eng. Asst. Prof.

Psychology [Prof.
Cook, T. W., M.A., Ph.D. Yale

Romance Languages
Massey, E. R., M.A. Brown Prof.
Hilborn, H. W., M.A., Ph.D. Tor. Assoc. Prof.

Theology

Biblical Literature and Interpretation
Lumsden, C. B., B.A., B.D., Ph.D. Yale Assoc. Prof.

Church History and Biblical English
Whidden, E. MacD., M.A., B.D. Assoc. Prof.

New Test. Lang. and Lit.
..... Prof.

Old Test. Lit. and Religious Education
Lumsden, C. B., B.A., B.D., Ph.D. Assoc. Prof.

Philosophy and Systematic Theol.
Fraser, R. MacG., M.A., B.D. Assoc. Prof.

Practical Theology
Warren, G. C., B.A., D.D. Armstrong Assoc. Prof.

School of Fine Arts

Art and Æsthetics
Abell, W. H., M.A. Swarthmore Prof.
Ricker, Annie, B.Sc. (Practical A.) Instr.

Music
Collins, E. A., Mus.B. Camb., F.R.C.O. Dean and Prof.
Fraser, Lillian J. (Violin, etc.) Instr.
Wilson, Dorothy MacL., M.Mus. (Piano, etc.) Instr.
MacDonald, Ruth B. (Voice) Instr.
Stramberg, Elsa, Mus.B. (Piano, etc.) Instr.

Radio Station

v. School of Fine Arts, *supra*
Steeves, R. T. Supervisor.

GENERAL INFORMATION

Founded in 1838 by the N.S. Baptist Educational Society, Acadia College was incorporated in 1840 by Act of the N.S. Legislature, with the powers of a

University and the name changed to Acadia University by an Act of Legislature in 1891. Endowment, $1,200,000, Physical Plant, $1,680,000. The Board of Governors is appointed by the Baptist Convention of the Maritime Provinces, but the students are subject to no religious tests.

LIBRARY: 65,000 vols. MUSEUMS: Biol., Ethnol., Geol., Hist. LABORATORIES: Biol., Chem., Geol., Physics, Engineering, Household Economics. OBSERVATORY: Meteor. and Astron.

DEPARTMENTS. Arts and Sciences, Theology, Applied Science, Household Economics, Music.

DEGREE COURSES. 4 yrs.—B.A., B.Th., B.Sc., B.Sc. (Hd.Ec.); 3 yrs.—B.Mus.; 1 yr. (graduate study)—M.A., M.Sc.; 2 yrs. (graduate study)—B.D. The B.Sc. Engineering courses entitle students to enter the Nova Scotia Tech. Coll. without examn., v. p. 444. They also enable students to enter the 3rd year classes of McGill Univ. Diploma Courses in Household Science, Music, Secretarial Science and Junior Arts, and Pre-Medical, Pre-Dental and Pre-Law courses, are also provided.

FEES for tuition, annual: $205-$265. Board provided at $7.50 per week, including room. Annual inclusive cost about $450-$500.

RESIDENCE. College hostels provide accommodation for 70 men and 228 women; University Dining Hall capacity, 600.

SUMMER SCHOOL. Organized in 1933 to provide courses of study for teachers of the province wishing to qualify for Master's degree, which is a necessary qualification for academic licence issued by Dept. of Education of Nova Scotia. Four summer sessions are required as equivalent of one full academic year. All the work for Master's degree must be carried out in one dept. Classes are also offered in undergraduate work and to a limited extent in elementary foreign languages and elementary maths.

EXTRA-MURAL WORK. Some courses by correspondence study method, not to exceed the full equivalent of one year's work.

PUBLICATIONS. *Bulletin*, 25 cents p.a.; *Calendar* (July); *Students' Year Book* (May); *Athenæum* (monthly, Oct. to May).

THE YEAR 1937–38

BENEFACTIONS. $15,000.

SUMMER SCHOOL. 33 graduate and 104 undergraduate students. Degrees awarded: M.A., 6; B.A., 5; B.Sc., 2.

RETIREMENTS. Prof. W. N. Hutchins (Old Test. Lit.), Prof. S. Spidle (Philos. and Systematic Theol.), and Prof. A. Sutherland (Engineering).

HONORARY DEGREES. *D.D.*—Rev. George Arthur Clarke, Malden, Mass., U.S.; Rev. Frank H. Eaton, Wolfville, N.S., Canada. *D.C.L.*—Hon. John Wallace Debeque Farris, Vancouver, B.C. (member of Senate of Canada).

STUDENTS. Full-time: 539, including 31 graduates. Part-time: 100.

DEGREES. B.D., 1; B.A., 45; B.Ed., 13; B.Th., 1; M.A., 4; B.Sc., 23; B.Sc. (H. Econ.), 15; M.Mus., 1; B.Mus., 2; Engineering Certif., 7; Dipl. (H. Econ.), 6; Licentiates in Music, 1; Dip. in Secretarial Practice, 6.

UNIVERSITY OF ALBERTA, EDMONTON

Founded 1906

Telegraphic address—VERA (A.B.C. Code)

VISITOR—His Honour the LIEUTENANT-GOVERNOR OF THE PROVINCE.

CHANCELLOR—Hon. A. C. RUTHERFORD, B.A., LL.D. McG., B.C.L.

CHAIRMAN OF BOARD OF GOVERNORS—Hon. H. HARVEY, B.A., LL.D. Tor., Chief Justice of Alberta.

PRESIDENT—WILLIAM A. R. KERR, M.A. Tor., Ph.D. Harv., LL.D., O.I.P., Chev. Lég. d'H., F.R.S.C.

REGISTRAR—A. E. OTTEWELL, M.A.

ASSISTANT REGISTRAR—G. B. TAYLOR, M.Sc.

LIBRARIAN—D. E. CAMERON, M.A. Edin.

BURSAR—ARCHIBALD WEST.

TEACHING STAFF

Accounting

Winspear, F. G., C.A. Asst. Prof.
Hamilton, R. W., B.Com., C.A. Sessional Instr.

Agriculture, v. *infra*

Anatomy

Shaner, R. F., Ph.D. Harv. Prof.
Greene, E., M.D., C.M. McG., F.R.C.S.Ed., F.A.C.S. Prof.
Rawlinson, R. E., M.Sc. McG., M.D. Assoc. Prof.

Hon. Demonstrators

Huckell, R. G., M.D., C.M. McG.
Lobsinger, A. J., M.D. Manit.
Watts, E. H., M.D.
Taylor, C. D., M.D.
Anderson, R. L., M.D., F.R.S.C.
Weinloss, C. H. W., M.D.
Sharf, R. L., D.D.S. Tor.

Architecture

Burgess, C. S., F.R.I.B.A., F.R.A.I.C. Prof.

Bacteriology, v. Med.

Biochemistry

Hunter, G., M.A., B.Sc. (Agric.), D.Sc. Glas., F.R.S.C. Prof.
Cantor, M. M., B.Sc., M.D. Manit. Asst. Prof.
Pett, L. B., M.A., Ph.D. Tor. Lectr.

Botany

Moss, E. H., M.A., Ph.D. Tor., F.R.S.C. Prof.
Brown, A. B., M.Sc. McG., D.Sc. Edin. Lectr.

Chemistry

Shipley, J. W., B.A. Manit., A.M., Ph.D. Harv., F.R.S.C. Prof.
Walker, O. J., B.A. Sask., A.M. Harv., Ph.D. McG. Prof.
Sandin, R. B., Ph.D. Chic., M.Sc. Assoc. Prof.
Boomer, E. H., B.Sc. Brit. Col., M.Sc., Ph.D. McG., F.R.S.C. Assoc. Prof.

Stover, N. M., Ph.D. Ill., M.Sc. Assoc. Prof.
19 Sessional Demrs.

Classics
Hardy, W. G., M.A. Tor., Ph.D. Chic. Prof.
Misener, Geneva, M.A. Qu., Ph.D. Chic. Prof.
Johns, W. H., B.A. W. Ont., Ph.D. Corn. Lectr.

Dentistry, v. *infra*

Economics, v. Pol. Econ.

Education
Lazerte, M. E., B.A. Tor., Ph.D. Chic., M.A., B.Educ. Prof. and Director, Sch. of Edn.
Smith, H. E., B.A. Ill., Ph.D. Cal., M.A., B.Educ. Assoc. Prof.
20 Demrs.

Engineering and Industrial Research, v. *infra*

English
Gordon, R. K., B.A. Ox., M.A., Ph.D. Tor., F.R.S.C. Prof. and Hd. of Dept.
Jones, J. T., B.A. Ox., M.A. Asst. Prof.
Tracy, C. R., B.A. Tor., Ph.D. Yale Lectr.
Mitchell, R., M.A. Lond. Sessional Lectr.
Ross, M. M., B.A. N.Br., M.A. Tor. Instr.

Entomology [Prof.
Strickland, E. H., M.Sc. Harv.

French and Ger., v. Mod. Langs.

Geology
Allan, J. A., M.Sc. McG., Ph.D. M.I.T., F.R.S.C. Prof.
Warren, P. S., B.A., Ph.D. Tor., A.R.C.S. Lond., F.R.S.C. Prof.
Rutherford, R. L., Ph.D. Wisc., M.Sc., F.R.S.C. Assoc. Prof.
1 Sessional Asst.

History
Smith, G. M., M.C., B.A. Tor., M.A. Ox. Dean, Fac. Arts & Sci., Prof.
Long, M. H., B.A. McM., M.A. Ox. (on leave) Prof.
Collins, R. W., M.A. Acad., Ph.D. Col., B.D. Union Theol. Sem. Assoc. Prof.

Household Economics
Patrick, Mabel, B.A. Tor., M.A. Col. Director, Prof.
McIntyre, Hazel, M.S. Ames, B.Sc. Lectr.
Duggan, Grace L., M.Sc. Chic., B.Sc. Instr.
1 Asst.

Law
Weir, J. A., B.A. Ox., LL.B. Sask., K.C. Dean.
Ford, Hon. Mr. Justice F., B.C.L. Trin. Coll. Tor., D.C.L. Tor. Hon. Prof.
MacIntyre, M. M., B.A. Mt. Allison, LL.M. Harv. Assoc. Prof.
Tweedie, Hon. Mr Justice Special Lectr.
2 Sessional Lectrs.
3 Sessional Instrs.

Mathematics
Sheldon, E. W., M.A. McG., Ph.D. Yale Prof.
Campbell, J. W., M.A. Qu., Ph.D. Chic., F.R.S.C. Prof.
Cook, A. J., M.A. Harv., Ph.D. Chic., B.Sc. Assoc. Prof.
Keeping, E. S., B.Sc. Lond., D.I.C. Asst. Prof.
5 Sessional Assts.

Medicine, v. *infra*

Modern Languages
Sonet, E., D. ès L. Rennes, M.A. (French) Prof. and Hd. of Dept.

Owen, F., M.A. Tor., Ph.D. Chic. (German) Prof.
de Savoye, H., L. en Dr. Paris, O.I.P. (French) Asst. Prof.
Müller, E., M.A. (German) Instr.
Healy, D. McN., B.A., L. ès L. Paris (Romance Langs.) (on leave) Instr.
William, Bro. Abdon, A.M. Col. (Spanish) Lectr.

Philosophy and Psychology

MacEachran, J. M., M.A. Qu., Ph.D. Qu. and Leip., LL.D. (Philos.) Prof.
Macdonald, J., M.A., D.Litt. Edin. (Philos.) Prof.
Smith, D. E., M.A. Qu., Ph.D. Harv. (Psych.) Sessional Lectr.

Physics

Smith, S., M.A., B.Sc. Ox., F.R.S.C. Prof.
Lang, R. J., B.A. McM., M.A., Ph.D. Tor., F.R.S.C. Prof.
Nichols, L. H., B.A. McG., M.A. Asst. Prof.
Gowan, E. H., Ph.D. Ox., B.A., B.Sc. Asst. Prof.

Physiology and Pharmacology

Downs, A. W., M.A. Phila., M.D. Penns., D.Sc. McG. Prof.
Ferguson, J., B.A. Tor., A.M. Stanf. Lectr.
2 Hon. Demrs.

Political Economy

Elliott, G. A., M.A. Manit. Prof.
Hewetson, H. W., B.A. Tor., M.A. B.C. Asst. Prof.
Stewart, A., M.A. Tor., Ph.D. Edin. Asst. Prof.

Zoology

Rowan, W., D.Sc. Lond., M.B.O.U., F.R.S.C. Prof.
Hughes, Winifred, M.A. Sask., Ph.D. Chic. Asst. Prof.
Miller, R. B., B.A. Tor. Fellow.

Agriculture

Agr. Engineering

Smith, J. MacG., B.S.A. Manit. Prof.

Animal Husbandry

Sackville, J. P., B.S.A. Tor., M.S. Iowa Prof.
Sinclair, R. D., M.S. Iowa, Ph.D. Aberd., B.S.A. Prof.
Bowstead, J. E., M.Sc., Ph.D. Wisc. Assoc. Prof.

Dairying

Thornton, H. R., Ph.D. Wisc., B.Sc. Prof.

Field Crops

Neatby, K. W., M.S.A. Sask., Ph.D. Minn. Prof.
Fryer, J. R., M.A. Tor., Ph.D Calif. Prof
Henry, A. W., M.S.A. Sask., Ph.D. Minn. (Plant Pathol.) Assoc. Prof.
12 Research Assts.

History of Agric.

Howes, E. A., B.S.A. Tor., D.Sc. Laval (Dean, Fac. of Agric.).

Horticulture

Shoemaker, J. S., B.S.A. Tor., M.S. Iowa State Coll., Ph.D. Minn. Prof.

Poultry

Clandinin, D. R., M.Sc. Br. Col. Instr.

Soils

Wyatt, F. A., B.S.A. Utah, M.S., Ph.D. Ill. Prof.
Newton, J. D., B.S.A. Macd., Ph.D. Calif. Prof.
Ignatieff, V., B.Sc. Lond., Ph.D. Tor., M.Sc., A.I.C. Lectr.

Veterinary Science

Talbot, P. R., M.D.V. Chic. Prof.

Engineering

Civil & Municipal E.

Wilson, R. S. L., B.Sc. McG. (Dean Fac. Applied Sc.) Prof.
Robb, C. A., B.Sc. McG., M.S. M.I.T., Ph.D. J. Hop. (Mech. E.) Prof.
Morrison, I. F., B.S. M.I.T. (Appl. Mechs.) Prof.
Webb, H. R., M.Sc. (Civil E.) Assoc. Prof.
Hardy, R. McD., B.Sc. Man., M.Sc. McG., D.L.S. (Civil E.) Asst. Prof.
Johnston, A. H., B.Sc. Qu. (Plant Design) Lectr.
Preston, W. W., B.Sc. Qu. (Drawing) Lectr.
1 Demr.

Electrical E.

Cullwick, E. G., M.A. Camb. Prof. and Hd. of Dept. Elect. Eng.
Cornish, W. E., B.Sc. Manit., M.Sc. Asst. Prof.
Porteous, J. W., M.Sc. Lectr.

Mining and Metallurgy

Pitcher, N. C., B.Sc. McG. (Mining E.) Prof.
Clark, K. A., M.A. McM., Ph.D. Ill. (Metal.) Prof.
Lilge, E. O., B.Sc. Instr.

Industrial Research

Stansfield, E., M.Sc. Manc. (Fuels) Prof.
Clark, K. A., M.A. McM., Ph.D. Ill. (Road Materials) Prof.
Lang, W. A., M.Sc. (Fuels) Asst.
Gilbert, K. C., B.A., B.Sc. Manit., M.Sc. (Fuels) Asst.
Kelso, J. A., M.Sc. Qu. Director of Labs. and Prov. Analyst.
Noble, C. E., B.A., B.Sc. Asst.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology and Hygiene

Rankin, A. C., C.M.G., M.D., C.M., D.P.H. McG., F.R.C.P. Can. Dean Fac. Med. and Prof.
Shaw, R. McL., B.A. Dal., M.D., C.M., D.P.H. McG., F.R.C.P. Can. Prof.
2 Demrs.

Cardiology

Hurlburt, C. W., M.B. Tor., F.R.C.P. Can. Clin. Prof.

Dermatology

Orr, H., O.B.E., M.B., D.P.H. Tor., F.R.C.P. Can. Clin. Prof.

History of Medicine

Jamieson, H. C., M.B. Tor., F.R.C.P. Can. (also Med.) Prof.

Medicine and Clinical Medicine

Pope, E. L., B.A. Qu., M.D., C.M. McG., F.R.C.P. Can., Lond. Prof.
Jamieson, H. C., M.B. Tor., F.R.C.P. Can. Assoc. Prof.
Bell, I. R., B.A., M.B. Tor., F.R.C.P. Can. (Clin. M.) Asst. Prof.
Scott, W. H., M.D., C.M. McG., F.R.C.P. Can. Asst. Prof.
Scott, J. W., M.D., C.M. McG., F.R.C.P. Can. Asst. Prof.
Hamilton, K., B.A. Tor., B.A., M.B., B.Ch. Ox., F.R.C.P. Can., M.R.C.P. Lond. (Clin. M.) Lectr.
Anderson, A. F., M.D., C.M. Manit. (Clin. Med.) Instr.
Macpherson, F. S., M.D. Western (Clin. Med.) Instr.
1 Demr., 1 Asst. Demr.

Obstetrics and Gynæcology

Conn, L. C., M.D., C.M. McG., F.A.C.S., F.R.C.S. Can., F.C.O.G. Prof.
Baker, J. O., M.D., C.M. Qu., F.A.C.S., F.R.C.S. Can., M.C.O.G. (Obstet.) Assoc. Prof

Day, Allan, M.B. Tor. Lectr.
Vant, J. R., B.A., M.D. Manit., M.C.O.G. Lectr.
1 Demr.

Ophthalmol. and Oto-Laryngol.
Wells, R. B., M.B. Tor., F.A.C.S., F.R.C.S. Can. (Ophthalm.) Clin. Prof.
Jamieson, C. V., M.B. Tor., F.R.C.S. Can. (Oto-Laryng.) Clin. Prof.
Levey, M. R., M.D., C.M. McG., D.L.O. Engl. Lectr.
2 Demrs.

Orthopædics
Mewburn, F. H. H., B.Sc., M.D., C.M. McG., F.R.C.S. Can. Clin. Prof.
Huckell, R. G., M.D., C.M. McG. Lectr.

Pathology
Ower, J. J., B.A., M.D., C.M. McG., F.R.C.P. Can. Prof. and Provincial Serologist.
MacGregor, J. W., B.A., M.D. Asst. Prof.
3 Demrs.

Pediatrics
Leitch, D. B., B.A., M.B. Tor., F.R.C.P. Can. Clin. Prof.
Calder, J., M.D. Instr.

Pharmacology, v. Physiol.

Pharmacy and Mat. Med.
Dunn, F. A. S., Ph.C. Tor., M.P.S. Gr. Bn., M.Sc., F.R.S.A. Prof.
Matthews, A. W., M.Sc. (on leave) Assoc. Prof.

Psychiatry
McLean, R. R., M.D., C.M. McG. Lectr.
McAlister, W. J., M.D., C.M. McG. Instr.
McCullough, D. L., B.A., M.D., D.P.M., Eng. Hon. Instr.

Public Health
Bow, M. R., B.A., M.D., C.M. Qu., D.P.H. Tor. Assoc. Prof.
Little, G. M., M.D. Manc., D.P.H. Tor. Instr.

Radiology
Proctor, R., M.D. Manit. Lectr.
Malcolmson, G. H., B.A., M.D. Tor. Hon. Instr.
Mooney, B. R., M.D. Western Hon. Instr.
1 Asst. Demr.

Surgery and Clinical Surgery
Munroe, A. R., M.D., C.M. McG., F.A.C.S., F.R.C.S. Can. Prof.
Gray, G. C., M.B. Tor., F.A.C.S., F.R.C.S. Can. Assoc. Prof.
Wilson, W. A., M.D., C.M. McG., F.A.C.S., F.R.C.S. Can. Assoc. Prof.
Hepburn, H. H., M.D., C.M. McG., F.R.C.S. Edin., F.A.C.S., F.R.C.S. Can. (and Clin. Prof. Neurol.) Assoc. Prof.
Gillespie, W. F., M.B., M.S. Tor., M.A., F.R.C.S., F.A.C.S. Can. Assoc. Prof.
Blais, A., M.D., B.S. Laval, F.A.C.S. Asst. Prof.
Ellis, N. G., B.A., M.D., C.M. Qu. (Urol.) Lectr.
Fife, J. K., M.D., C.M. McG. (Clin. Surg.) Asst. Prof.
Greene, E., M.D., C.M. McG., F.R.C.S. Edin., F.A.C.S., F.R.C.S. Can. (Surg. Anat.) Lectr.
McPherson, J. A., M.B. Tor. (Clin. Surg.) Lectr.
Terwillegar, N. Ll., M.B. Tor. (Clin. Surg.) Lectr.
McEachern, I. W. T., M.D., C.M. McG., F.A.C.S. Instr.
6 Asst. Demrs.

Therapeutics
Bell, I. R., B.A., M.D. Tor., F.R.C.P. Can. Assoc. Prof.
Watts, E. H., B.A., M.D. (Anæsthesia) Lectr.
2 Demrs.

Dentistry

Bulyea, H. E., D.M.D. Harv.
Prof. and Director of Sch.
Gilchrist, H. A., D.D.S. Northwn.
(Prosthetic D.) Assoc. Prof.
Hamilton, W. S., L.D.S., D.D.S. Tor.
(Exodontia) Asst. Prof.

Lecturers

Craig, W. P., M.A. Wash. and Jeff., D.D.S. Northwestern (Oper. D.)
Hope, G. J., L.D.S., D.D.S. Tor. (D. Pathol.)
Roberts, J. G., L.D.S., D.D.S. Tor. (D. Radiol.)
Gemeroy, G. A., L.D.S., D.D.S. Tor. (D. Med.)
Mason, A. B., D.D.S. Penn. (Peridontia)
Macdonald, T. F., D.D.S. Penn.
(D. Ethics) Lectr.
Dunsworth, M. M., D.D.S. Northwestern (D. Econ.) Lectr.
Bradley, R. W., D.D.S. McG. (Oper. D.)
Paterson, A. B., LL.B. (D. Juris.)

Instructors

Mercer, F. S., L.D.S., D.D.S. Tor. (Prosthetic D.)
Thurston, G. B., L.D.S., D.D.S. Tor. (Oper. D.)
Maclean, H. R., D.D.S. (Oper. D.).

Demonstrators

Lloyd, V. M., L.D.S., D.D.S., B.Sc. Tor. (Oper. D.)
Revell, A. M., D.D.S. (Prosthetic D.)

Physical Education

Jamieson, J. M. Acting Director.

Department of Extension

Cameron, D., B.Sc.
Lectr. and Acting Director.
Montgomery, Jessie F., B.A. Libn.

AFFILIATED INSTITUTIONS

St. Stephen's College, Theological College of the United Church of Canada, is situated on the University Campus. Principal—Rev. A. S. Tuttle, M.A., D.D. Mt. All., LL.D.

St. Aidan's College and Hostel (Anglican)—affiliated 1919. Warden—Rt. Rev. A. E. Burgett, M.A., D.D., Bishop of Edmonton.

St. Joseph's Catholic College (Arts). Rector—Rev. Brother Memorian, B.A. N.Y., M.A. Chic., F.S.C. Affiliated to the Univ. in May 1926 as an Arts Coll. working under the authority of the Senate; occupies a site on the Univ. Campus.

The Provincial Institute of Technology and Art, Calgary, operates directly under the authority of the Dept. of Education. Affiliated May 13, 1926. Principal—W. G. Carpenter, B.A., LL.D. McM.

GENERAL INFORMATION

For the early history of the University, created by Act of the Legislative Assembly (Alberta), 1906, see *Yearbook* for 1929. In 1919–20 the large post-war increase in the number of medical students necessitated the construction of a new Medical Building. In the same session the creation of the office of Director of the School of Pharmacy completed the evolution of the School from a Dept. under the Fac. of Medicine to an independent unit. Similarly in 1928–1929 Commerce and Household Economics were raised to the status of Schools and provision made for a School of Education, the latter taking over from the Provincial Normal Schools the professional training of Univ. graduates. The

Provincial Legislature has established a close relationship between the Univ. and the Professions, and the Senate has jurisdiction over the educational standards of Architects, Chartered Accountants, Dentists, Engineers, Land Surveyors, Lawyers, Pharmacists, Physicians and Surgeons, Registered Nurses, Optometrists, and Veterinary Surgeons.

The Univ., whose property covers 637 acres, is situated in the city of Edmonton, the capital of the Province of Alberta. The grounds run along the wooded southern bank of the Saskatchewan river and afford ample room for playing fields and the expansion of the building scheme.

LIBRARY, 64,427 vols. LABORATORIES for all scientific courses; museum (vertebrate palæontology); herbarium; farm; agricultural experimental plots.

FUEL TESTING LABORATORY. For the detailed study of the chemical and physical properties of Alberta coals; also for investigating industrial problems such as coking, carbonizing, briquetting, combustion, storage and purification of coal.

RESEARCH LABORATORIES OF DEPARTMENT OF FIELD CROPS. These laboratories have been developed during the past 10 years for the investigation of special problems underlying crop production in Western Canada. Progress has been greatly facilitated by grants-in-aid of special researches received from the National Research Council. The programme of investigation covers such important problems as the nature of resistance to frost, drought, and disease; methods of eliminating false wild oats; and factors affecting the milling and baking qualities of wheat.

FACULTIES. Arts and Sciences (incl. Schools of Household Econ., Pharmacy and Commerce); Applied Science (Civil, Mining, Chemical and Electrical Engineering and Architecture); Medicine (including Dentistry and Nursing); Law; Agriculture. School of Education.

MATRICULATION examns. are conducted in June and Aug., under control of High School and Univ. Matricn. Examns. Board of the Province. Equivalent examns. by recognized authorities in the British Dominions are accepted *pro tanto* for admission.

DEGREE COURSES. 3 yrs. (honours, 4 yrs.)—B.A., B.Com., B.Sc. in Arts, B.Sc. in Household Econ., B.Sc. in Pharmacy; 4 yrs.—B.Sc. in Engin. (Civ., Elec., Chem., Mining), B.Sc. in Arch.; 5 yrs.—B.Sc. in Nursing, D.D.S.; 6 yrs.—M.D. Combined degrees: 5 yrs.—B.A. and B.Sc. in Agric., B.A. and LL.B.; 6 yrs.—B.A. and B.Sc. in Engin. or Arch., B.A. or B.Sc. and D.D.S.; 7 yrs.—B.A. or B.Sc. and M.D.; 3 yrs. after graduation from a Provincial School of Agriculture—B.H.Ec., B.Sc. in Agric.

A Bachelor may obtain the M.A. or M.Sc. in from 1-2 yrs. of advanced study or investigation or the B.Educ. in from 2-3 yrs. of advanced study and research. The D.Sc. is conferred for distinction in original research in the field of science. The B.D. is open to B.A. students of affiliated theological colls. on completion of an approved course. The LL.D. is honorary.

OTHER COURSES. Licence in Pharmacy, 2 yrs.; Summer Session in co-operation with the Summer School for Teachers conducted by the Provincial Dept. of Educn.; Professional qualification for the Teachers' High School Certificate issued by the Provincial Dept. of Education; 3 mos.' course in P.H. Nursing for Registered Nurses; Provincial Dairy School short courses; 3 yrs.' course for qualification of Regd. Nurse.

FEES, tuition per session Arts (including 1st yr. B.A., B.Sc. in Arts, B.Sc. in Pharm., B.Sc. in H.Ec.), $110; B.Com., $125; Appl. Sc., $150; Law,

$135; Med., $150 to $225; Dent., $150 to $235; Agric., $60 to $85; Licentiate Pharmacy, $125 to $150; B.H.Ec., $110; Nurs., $95.

Registration, $3; Students' Union, $11; Med. Service, $5; Library, $5.

RESIDENCE, ETC. 5 Residential Halls (including 2 belonging to affiliated colleges), with accommodation for 525. Fees for room and board for the session, $210; board only, $20 per month. Social life is under supervision of the Provost, a Univ. officer. All undergraduates are members of the Students' Union.

UNIVERSITY EXTENSION work includes lectures at local centres, publication of material for debating and public discussion, travelling and packet libraries, and lantern slide and cinema services. The Extension Dept. has its own Radio Broadcasting Station.

PUBLICATIONS. *Calendar* (April); Summer Session *Announcement* (Dec.); *Press Bulletin*, at intervals, by Dept. of Extension; *The Trail*, quarterly, by Alumni Assocn.; *The Gateway*, weekly; *The Evergreen and Gold*, annually, by students.

THE YEAR 1937–38

BENEFACTIONS. Bayer-Semesan Co., $300; Canadian Industries, Ltd., $300 for research in field crops; Alberta Wheat Pool, $500 for Olds School of Community Life; Boyce-Thompson Inst., $200, fellowship in Horticulture; United Grain Growers, $500 for investigation of field crop problems; F. W. Berk & Co., Ltd., $500 for agricultural research; the Dept. of Agriculture of the Dominion, $450 for agricultural research; numerous other gifts for various purposes from societies and private persons.

EXTENSION WORK. Lantern slides sent out, 1296 sets; films, 863 sets. Lectures and moving-picture programmes, 121. Travelling library circulation, 14,345. Radio lectures, 480. University Week for Farm Young People. Under the auspices of the dept. a school of Art, Music and Drama was held in Banff during August.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Lectrs. in Summer Session 1938: Dr. R. A. Coleman (Montana State); Dr. W. L. MacDonald (Br. Col.); Prof. J. A. Macdonald (Sask.); Dr. G. F. G. Stanley (Mt. All.).

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. R. K. Gordon, Head of Dept. of English lectured at Summer Session U. of B.C.

RETIREMENTS. Prof. D. J. Revell (Anat.), Assoc. Prof. J. A. Adam (Drawing).

RESIGNATIONS. Asst. Prof. M. K. McPhail (Physiol.); Prof. W. H. Alexander (Classics); Prof. F. J. Lewis (Botany); E. A. Corbett (Director, Dept. of Extension).

HONORARY DEGREE. Sir Edward Beatty, K.C., LL.D., Chancellor, McGill Univ.

STUDENTS. Full-time: 1629, including 86 graduates. Part-time: 61, including 14 graduates.

DEGREES. B.D., 1; B.A., 117; M.A., 10; B.Com., 16; LL.B., 20; B.Sc. Arch., 1; B.Sc. Chem. Eng., 11; B.Sc. Civil Eng., 3; B.Sc. Elect. Eng., 8; B.H.Ec., 1; B.Sc. Mining, 11; B.Sc. Agric., 15; B.Sc. Pharm., 2; B.Sc. Househ. Econ., 28; B.Sc. Nurs., 9; M.Sc., 15; M.D., 31; D.D.S., 20; High School Teacher's Certif., 29.

UNIVERSITY OF BISHOP'S COLLEGE, LENNOXVILLE, QUEBEC

Founded 1853

CHANCELLOR—Hon. R. A. E. GREENSHIELDS, D.C.L., LL.D., C.J., Superior Court of Quebec.

VICE-CHANCELLOR—Rev. A. H. McGREER, O.B.E., M.C., M.A. Ox., D.D., Principal of the College and Dean of Arts.

REGISTRAR—S. SANDERS, Bursar and Secretary of the College.

TEACHING STAFF

Classics

Preston, A. W., M.A. Edin., B.A. Ox. Lectr.

Divinity

Jones, Rev. G. B., M.A. Ox., B.A. Lond. Dean of Fac. & Harrold Lodge Prof.

Childs, Rev. S., M.A. Tor., B.D. Arts Lectr.

Education

Rothney, W. O., M.A. Chic., B.D., Ph.D. Hartf. Prof.

English

Raymond, W. O., M.A., Ph.D. Mich., F.R.S.C. Prof.

Owen, E., M.A. Ox., Ph.D. Harv. Asst. Prof.

Hebrew and O. Test.

Moffatt, Rev. E. K.,M.A., B.D. Lectr.

History

Boothroyd, E. E., M.A. Camb., D.C.L. Prof.

Mathematics

Richardson, A. V., M.A. Camb., D.C.L. Prof.

Modern Languages

Call, F. O., M.A., D.C.L. Prof.

Yarrill, E. H., B.A. Lectr.

Natural Science

Kuehner, A. L., M.A. Queen's, F.C.I.C. Prof.

Home, M., M.Sc. McGill Assoc. Prof.

Langford, A. N., B.A. Qu., M.A., Ph.D. Tor. Lectr.

Pastoral Theology

Scott, Rev. E., M.A. Ox. Mountain Prof.

Philosophy and Economics

Burt, Rev. H. C., M.A. Tor. Prof.

GENERAL INFORMATION

The College, founded in 1843, was in 1853 by Royal Charter constituted a University with power to confer degrees. It is administered by a Corporation consisting of the Anglican Bishops of the Province and Trustees and Council appointed by them jointly. The Bishops of Montreal and Quebec are President and Vice-President respectively of the Corporation and Visitors of the College

The College provides ordinary and Honours courses for the degrees of B.A. and B.Sc. in Arts, covering 3 yrs., and a 3 yrs.' course for the L.S.T. Divinity is a compulsory subject in each of the years of the ordinary course. Clergymen of the Dioceses of Canada may proceed to the B.A. by examns. without residence if of 6 yrs.' standing, and on a reduced period (1 or 2 yrs.) if of 4

or 2 yrs.' standing. The M.A. is open to B.A.s of the Univ. or of other Univs. after a 1 yr. postgraduate course.

Examns. are conducted for degrees in Music.

The University conducts a Summer School for Teachers which lasts for 6 weeks.

FEES. For tuition, $175 p.a. for an Arts student; $125 p.a. for a Divinity student; board and furnished lodging with heating and lighting, $325 p.a.

PROVISION FOR GAMES. Rugby field, golf course, tennis courts, rink for ice hockey, gymnasium.

PUBLICATION. *Calendar* (March).

THE YEAR 1937–38

BENEFACTIONS. Bequest of $10,000 under will of the late Senator Smeaton White.

HONORARY DEGREES. *D.C.L.*—H.E. Lord Tweedsmuir, Governor-General of Canada; Sir Francis L. C. Floud, G.C.M.G.; the Hon. Sir Herbert Marler, K.C.M.G.; the Rt. Rev. Monsignor O. Maurault; the Very Rev. A. F. C. Whalley.

STUDENTS. Full-time: 159, including 10 graduates. Part-time: 13 post-graduate.

DEGREES. B.A., 28; M.A., 2; B.Sc., 4; Mus.Bac., 1; L.S.T., 1.

THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER

Founded 1908

Telegraphic Address—UBRICO.

VISITOR—THE LIEUT.-GOVERNOR OF THE PROVINCE.

CHANCELLOR—R. E. MCKECHNIE, C.B.E., M.D., C.M., LL.D., F.A.C.S., F.R.C.S. Can.

PRESIDENT—LEONARD S. KLINCK, B.S.A. Tor., M.S.A., D.Sc. Iowa, LL.D. Westn. Ont., O.I.P.

REGISTRAR—S. W. MATHEWS, M.A. Qu.

LIBRARIAN—J. RIDINGTON.

TEACHING STAFF

Agriculture, v. *infra*

Bacteriology and Preventive Medicine

Dolman, C. E., M.B., B.S., Ph.D., D.P.H. Lond., M.R.C.P., M.R.C.S. Prof.

Duff, D. C. B., M.A., Ph.D. Tor. Asst. Prof.

3 Assts.

Botany

Hutchinson, A. H., M.A. McM., Ph.D. Chic., F.R.S.C. Prof.

Dickson, Frank, B.A. Qu., Ph.D. Corn. Assoc. Prof.

Davidson, J., F.L.S., F.B.S.E. Assoc. Prof.

Allardyce, J., Ph.D. McGill, M.A. Asst. Prof.

Ashton, Miss E. M. R., B.Sc. Lond., M.A. Instr.

11 Assts.

Chemistry

Clark, R. H., M.A. Tor., Ph.D. Leip., F.R.S.C. Prof.

Archibald, E. H., B.Sc. Dal., A.M., Ph.D. Harv., F.R.S.E. and C. (Anal. C.) Prof.

Seyer, W. F., B.A., M.Sc. Alta., Ph.D. McG. Assoc. Prof.

Marshall, M. J., M.Sc. McG., Ph.D. Mass. Inst. Tech. Assoc. Prof.

Ure, W., Ph.D. Cal. Inst. Tech., M.A.Sc. Asst. Prof.

Harris, J. Allen, Ph.D. Ill., M.A. Asst. Prof.

10 Assts.

Classics

Robertson, L. F., M.A. McG. Prof.

Todd, O. J., Ph.D. Harv. Prof.

Guthrie, P. G. M., B.A. Manit., M.A. Tor. Instr.

Auld, Jean M., B.A. Colorado, M.A. McG. Lectr.

Riddehough, G. B., M.A. Calif., B.A. Lectr.

Dairying, v. Agric.

Economics, Polit. Sci., Commerce and Sociology

Angus, H. F., B.A. McG., B.C.L., M.A. Ox. Prof.

Day, J. F., B.A. Tor., M.A. Chic. (Ec. & Com.) Assoc. Prof.

Topping, C. W., B.A. Qu., S.T.D. Wesley Theol. Coll., A.M., Ph.D. Col. (Ec. & Soc.) Assoc. Prof.

Drummond, G. F., M.A. St. And., M.Sc. (Econ.) Lond.
Assoc. Prof.

Lectrs.

Crumb, J. A., B.B.A. Wash., M.S., Ph.D. Calif.
Currie, A. W., B.A., B.Com. Qu., M.B.A. Harv.
Field, F., C.A. (Accountancy)
Tupper, R. H. (Comm. Law)
Jennings, W. Ivor, M.A., LL.B. Camb., LL.D. Lond.
Sp. Lectr.

5 Assts.

Education, v. also Philosophy

Weir, G. M., B.A. McG., M.A. Sask., D.Pæd. Queen's (on leave) Prof.
Buchanan, Prof. D. (also Maths.) Actg. Hd. of Dept.
Black, W. G., M.A., Ph.D. Chic., B.A.

Assoc. Prof.

Wood, C. B., A.M. Col. Lectr.

Engineering, Civil

Finlayson, J. N., M.Sc. McG., M.E.I.C., M.Amer.S. C.E.
(Dean of Fac.) Prof.
Wilkin, F. A., B.A.Sc. McG.
Assoc. Prof.
Finlay, A. H., M.S. in C.E. Ill., B.A.Sc. Assoc. Prof.
Lighthall, A., B.Sc. McG. Asst. Prof.
Pretious, E.S., B.A.Sc. Instr.
Peebles, A., B.A.Sc., B.A. Instr.
Hrennikoff, A., M.A.Sc. (on leave) Instr.
Alexander, J. B., B.Sc. N.Br.
Hon. Lectr.

1 Asst.

Engineering, Mech. & Elec.

MacLeod, H. J., B.Sc. McG., M.Sc. Alta., M.A., Ph.D. Harv., M.E.I.C., F.A.A.A.S. Prof.
Vernon, F. W., B.Sc. (Eng.) Lond., A.F.R.Ae.S.
(Mech. E.) Prof.
Morgan, S. C., B.S. Qu., M.Sc. Alb. and Calif. I.Tech. (Elect. E.) Assoc. Prof.
Coulthard, W. B., B.Sc. Lond., M.Amer. I.E.E.
(Elect. E.) Asst. Prof.
Bell, J. F., O.B.E., R.N., Eng. Capt., M.E.I.C.
(Mech. E.) Asst. Prof.
Richmond, S. O., M.S. Pittsb., B.A.Sc.
(Mech. E.), Asst. Prof.
McIllroy, H. M., M.Sc. Qu.
Asst. Prof.

4 Assts.

English

Sedgewick, G. G., B.A. Dal., Ph.D. Harv. Prof.
MacDonald, W. L., B.A. Tor., M.A. Wisc., Ph.D. Harv. Prof.
Wood, F. G. C., B.A. McG., A.M. Harv. Prof.
Larsen, Thorleif, M.A. Tor., B.A. Ox., F.R.S.C. Prof.
Dilworth, Ira, B.A. McG., A.M. Harv. (on leave) Prof.
Bollert, Miss M. L., M.A. Tor., A.M. Col. (Dean of Women)
Asst. Prof.
Lewis, H. C., M.A. Asst. Prof.
Blakey, Dorothy, M.A. Tor. and Brit. Col., Ph.D. Lond.
Asst. Prof.
Morrison, E., A.M. Cal., B.A.
Asst. Prof.
Creighton, J. H., M.A. Tor. Lectr.
Hall, T. Roy, B.A. Dal. Lectr.

1 Asst.

Forestry

..... Prof.
Knapp, F. M., B.S.F. Syracuse, M.S.F. Wash.
Assoc. Prof., Actg. Hd. of Dept.
Griffith, Braham B., M.F. Harv., M.A. Instr.
Brown, R. M., B.Sc.F. Tor.
(Forest Prod.) Hon. Lectr.

Jenkins, J. H., B.A.Sc. Hon. Lectr.
Byers, W. Spec. Lectr.
Dixon, L. B. Spec. Lectr.
Recknagel, A. B., B.A., M.F. Spec. Lectr.

French and German, v. Mod. Langs.

Geology and Geography

Williams, M. Y., B.Sc. Qu., Ph.D. Yale, F.G.S.A., F.R.S.C. Prof.
Schofield, S. J., M.A., B.Sc. Qu., Ph.D.Mass. I. Tech.,F.G.S.A., F.R.S.C. (Phys. and Struct. Geol.) Prof.
Swanson, C. O., Ph.D. Wisc., M.A.Sc. (Miner. and Petrogr.) Prof.
Warren, H. V., B.Sc., D.Phil. Ox., B.A., B.A.Sc. (Miner. and Petrography) Asst. Prof.
Davis, G., B.A. Manit., Ph.D. Princet., M.A. Instr.
2 Assts.

History

Sage, W. N., B.A., Ph.D. Tor., M A. Ox. Prof.
Soward, F. H., B.A. Tor., B.Litt. Ox. Prof.
Cooke, A. C., B.A. Manit., M.A. Ox. Asst. Prof.
Thrupp, Sylvia, Ph.D. Lond., M.A. Instr.
2 Assts.

Horticulture, v. Agric. *infra*

Mathematics

Buchanan, D., M.A., LL.D. McM., Ph.D. Chic., F.R.S.C. (Dean of Fac.) Prof.
Nowlan, F. S., B.A. Acad., A.M. Harv., Ph.D. Chic. Prof.
Hull, Ralph, Ph.D. Chic., M.A. Prof.
Richardson, L., B.Sc. Lond. Prof.
Gage, W. H., M.A. Assoc. Prof.
Brand, F. J., B.Sc. Ox., B.A. Asst. Prof.
Barclay, May, M.A. Instr.
Sargent, Mrs. Jean F., Ph.D. Tor., M.A. Lectr.
10 Assts.

Mining and Metallurgy [Prof.
Turnbull, J. M., B.A.Sc. McG.
Gillies, G. A., M.Sc. McG. (Mining) Prof.
Forward, F. A., B.A.Sc. Tor. Asst. Prof.
Bishop, W. B. (Metal.) Instr.

Modern Languages

Evans, David O., M.A., D.Phil. Ox., D. ès L. Paris Prof.
Clark, A. F. B., B.A. Tor., Ph.D. Harv., O.A. (French) Prof.
MacInnes, Isabel, M.A. Qu., Ph.D. Calif. (German) Assoc. Prof.
Greig, Janet T., B.A. Qu., M.A., O.A. (French) Asst. Prof.
Dallas, Dorothy, D. de l'U. Paris, M.A. (French) Asst. Prof.
Tipping, Wessie, D. de l'U. Paris, M.A. (French) Asst. Prof.
Hallamore, Joyce, Ph.D. Mun., M.A. (German) Asst. Prof.
Darlington, Mme. D., Instr.
Roys, Mrs. Alice, A.M. Calif. Instr.
1 Asst.

Nursing and Health

Dolman, C. E. (v. Bacteriol.) Actg. Hd. of Dept.
Gray, Mabel F., R.N., Cert. P.H.N. Simmons Coll. Asst. Prof.
Kerr, Margaret E., R.N., M.A. Col., B.A.Sc. Instr.
Young, Fyvie, R.N., M.A. Col., B.A.Sc. Instr.

Philosophy and Psychology

Coleman, H. T. J., B.A. Tor., Ph.D. Col. Prof.
Irving, J. A., M.A. Camb. and Tor. Prof.

Morsh, J. E., Ph.D. Johns Hopkins, B.A. Asst. Prof.
2 Assts.

Physics

Shrum, G. M., M.A., Ph.D. Tor., F.R.S.C. Prof. and Hd. of Dept.
Hennings, A. E., M.A. Lake Forest Coll., Ill., Ph.D. Chic. Prof.
Anderson, O. E., Ph.D. Calif., M.A. Asst. Prof.
Crooker, A. M., B.A. McM., Ph.D. Tor. Asst. Prof.
Smith, H. D., Ph.D. Tor., M.A. Lectr.
Mann, K. C., B.A. Sask., Ph.D. Tor. Lectr.
6 Assts.

Zoology

Fraser, C. McL., M.A. Tor., Ph.D. Iowa, F.R.C.S. Prof.
Spencer, G. J., B.S.A. Tor., M.S. Illinois Assoc. Prof.
Watney, Mrs. Gertrude M., Ph.D. Calif., M.A. Asst. Prof.
5 Assts.

Agriculture

Agronomy

Moe, G. G., B.S.A., M.Sc. McG., Ph.D. Cornell Prof.
Boving, P. A., Cand. Ph. and Agr. (Sweden) Prof.
Laird, D. G., B.S.A. Tor., M.S., Ph.D. Wisc. Assoc. Prof.
1 Asst.

Animal Husbandry

King, H. M., B.S.A. Tor., M.S. Oregon Ag. Coll. Prof.
Wood, S. N., B.S.A. Sask., D.V.M. Iowa St. Col. Assoc. Prof.
Jervis, J. G., B.V.Sc. Tor., V.S. Ont. Vet. Coll. Instr.

Dairying

Eagles, B., Ph.D. Tor., B.A. Prof.
3 Assts.

Horticulture

Clement, F. M., B.S.A. Tor., M.A. Wisc. (Dean of Fac.) Prof.
Barss, A. F., A.B. Roch., B.S.Agr. Corn., M.S. Oreg. Ag. Coll., Ph.D. Chic. Prof.
Harris, G. H., M.A. Oreg. S. Coll., Ph.D. Calif., B.S.A. Assoc. Prof.
Buck, F. E., B.S.A. McG. Lectr.

Poultry Husbandry

Lloyd, E. A., B.S.A. Sask., M.S.A. Wash. S. Coll. Prof.
Biely, J., M.S. Kansas St. Col., M.S.A. Instr.

University Extension

Shrum, G. M., M.A., Ph.D. Tor. Director.
3 Assts.

University Health Service

Moore, Gertrude E. (Phys. Edn. for women) Instr.
Van Vliet, M. (Phys. Edn. for men) Instr.

AFFILIATED COLLEGES

Victoria College, Victoria. Affiliated, 1920, for 1st and 2nd years in Arts. Principal—P. H. Elliott, M.Sc. McG., Assoc. Prof. of *Science*, 6 Asst. Profs., 3 Instrs., 1 Asst.

Union College of British Columbia, Vancouver (United Church of Canada)—Principal, Rev. J. G. Brown, M.A., D.D.; and The Anglican Theological College of British Columbia, Vancouver—Principal, Rev. H. R. Trumpour, M.A., D.D. Tor. Both Colls. were affiliated in 1922.

GENERAL INFORMATION

The University of British Columbia was incorporated by an Act of 1908. For early history, see *Yearbook* for 1929. The University site consists of 548

acres on the headland of Point Grey, 300 feet above the sea. Here a group of buildings constructed at a cost of nearly $2,000,000 was opened in Oct. 1925.

The Board of Governors consists of the Chancellor, elected by Convocation, President, and 9 persons—3 elected by the Senate and 6 appointed by the Lieut.-Govr. in Council. The Senate consists of the Chancellor, President (as Chairman), Deans, and 2 Profs. of each Faculty, 3 nominees of the Lieut.-Govr. in Council, principals of normal schools, one member elected by high school principals and assts., one by each affiliated Coll. in the Province, 15 by Convocation, one by the B.C. Teachers' Federation.

The Univ. is an integral part of the public educational system of the Province, and its function is to complete the work begun in the public and high schools. It is the policy of the Univ. to promote education in general and, in particular, to serve its constituency through three channels—teaching, research, and extension work. It furnishes instruction in the various branches of a liberal education, and in those technical departments which are most directly related to the life and industries of the Province. The people of the Province are informed of the results of special work by the staff of the Univ. through the Department of University Extension.

The LIBRARY has 115,000 vols. and about 25,000 pamphlets, and regularly receives 680 periodicals. It is one of the three Canadian Depositories of the Library of Congress Catalogue, and possesses a Carnegie Corporation Music Set. LABORATORIES available for all courses. A Forest Products Lab. was established in 1918 by the Forestry branch of the Dept. of the Interior as a permanent branch of the F.P. Labs. of Canada, v. App. III. B. 1. HERBARIUM, 16,000 sheets native flora, 200 water-colours B.C. Fungi. BOTANICAL GARDENS, Arboretum and Economic Section, 5 acres.

FACULTIES. Arts and Science (including Commerce), Applied Science (Civil, Elec., Mech., Forest, Geological, Metallurgical, Mining and Chemical Engineering, Chemistry, Nursing and Health), Agriculture (including Dairying and Horticulture).

MATRICULATION examns., Junior and Senior, are arranged by the High School and Univ. Matricn. Board of the Province, consisting of members appointed by the Dept. of Education and by the Univ. Every student is submitted to a physical examn. on entrance to the University.

DEGREE COURSES. B.A., 4 yrs. (3 from Senior Matricn.). B.Com., 4 yrs. B.A.Sc. in Applied Science, 5 yrs. (4 from 1st yr. in Arts or Senr. matricn.). B.S.F. (Forestry), 5 yrs. B.S.A., 4 yrs. from Junr. matricn. Double course, B.A. and B.A.Sc., 6 yrs. M.A., M.A.Sc. and M.S.A., 1 yr. postgraduate.

OTHER COURSES. Short Courses in Agric. at the Univ. and elsewhere. 1 yr. course in Public Health for graduate nurses. Occupational Course of 1 yr. in Agriculture; Social Service, 3 yrs., leading to diploma. Evening Courses, with summer excursions, in Botany.

SUMMER SESSION. Teachers and others with full Matricn. standing may pursue Univ. courses and receive credit therefor towards the B.A. degree. Arrangements are made for the delivery of lectures by Profs. and teachers from other Univs.

UNIVERSITY EXTENSION. Under a grant from the British Dominions and Colonies Fund of the Carnegie Corporation of New York, the Univ. organized early in 1936 a Dept. of Univ. Extension. The present activities of the Dept. include (*a*) Extension Lectures at various centres throughout the Province; (*b*) Study-Group Courses on subjects related to general work of the Univ.; (*c*) Short Courses carrying no acad. credit during both Winter and Summer

Sessions; (*d*) Visual Instruction by means of (i) Lantern and Film Slide Service, (ii) Moving Picture Service; (*e*) Radio broadcasts from studio on campus; (*f*) Library assistance to those who wish to do systematic reading; (*g*) Art and Music Courses, thanks to facilities supplied by Carnegie Art Teaching Set and Carnegie Music Set; (*h*) Public Relations—items of interest to the public are prepared and released to the press.

FEES, inclusive for tuition, $125-$175 per session. Graduation, $15.

SCHOLARSHIPS FOR GRADUATES. Two of $500, one in Chemistry and one in Geology. One each of $200, $150, $125, $100, $50. One of 10,000 francs for study in France.

RESIDENCE. Board and lodging in vicinity of the College from $25 upwards p.m.

HEALTH SERVICE FOR STUDENTS. Each student on admission is given complete physical examn., including tuberculin skin test and chest X-ray. Before participation in athletics all women students are annually medically examined and men students are checked as to physical fitness for participation in strenuous athletics. A scheme for the control of communicable diseases and the following up of defects is in operation and first-aid is rendered by a full-time public health nurse. The Medical Officer is available at specified hours for consultation.

Physical Educ. is at present on voluntary basis and carries no Univ. credit.

PUBLICATIONS. *Requirements for Matriculation*; *Calendar* (April); Summer Session *Announcement of Courses.*

THE YEAR 1937–38

NEW APPOINTMENTS. Professorships in Mathematics, Philosophy and Physics. Asst. Professorships in Animal Husbandry, Biology, English (2), German and Psychology.

RESIGNATIONS. Prof. W. A. Carrothers (Econ.); Prof. H. T. Logan (Classics); Mrs. Jennie Wyman Pilcher (Psychol. and Educ.).

DEATH. Prof. T. C. Hebb (Physics).

VISITORS. A number of distinguished teachers from other Univs. lectured at the Summer Session.

STUDENTS. Full-time: 2223 (including 165 graduates). Part-time: 258. Short Courses: Summer Session, 1937, 650. Occup. Course (Agr.), 3; Public Health Nursing, 21; Botany, 21; Extra-Sessional Classes, 77; Directed Reading Course, 112; Social Service, 45.

DEGREES. B.A., 257; M.A., 30; B.Com., 34; B.A.Sc., 60; M.A.Sc., 8; B.S.A., 24; M.S.A., 3.

DALHOUSIE UNIVERSITY, HALIFAX, NOVA SCOTIA

Founded 1821

With which is affiliated King's College

CHAIRMAN OF THE BOARD OF GOVERNORS—JAMES MCG. STEWART, B.A., LL.B., K.C.

PRESIDENT OF THE UNIVERSITY—CARLETON W. STANLEY, B.A. Tor., M.A. Ox., Litt.D. Colo., LL.D. Tor. and Maine, F.R.S.C.

REGISTRARS—J. H. L. JOHNSTONE, M.B.E., Ph.D. Yale, M.Sc.; C. L. BENNET, M.A. Camb., A.M. Harv.

TEACHING STAFF

Anatomy

Mainland, D., M.B., Ch.B., D.Sc. Edin., F.R.S.Ed. Campbell Prof.

Saunders, R. L. de C. H., M.B., Ch.B. Edin. Asst. Prof.

Holland, C. W., B.A., M.D., C.M. Demr.

Graham, J. V., M.D., C.M., F.A.C.S. Demr.

Noble, J. A., B.A. Acad., M.B., Ch.B., F.R.C.S. Edin. Demr.

Jones, C. M., M.D., C.M., F.A.C.S. Demr.

Art

Grant, K. M., B.Sc., M.D., C.M. (Radiological A.) Demr.

Murray, B. E., B.A., M.D., C.M. Demr.

Falconer, J. W., M.A. Edin., D.D. Knox Lectr.

Biblical Literature

Watson, W. G., B.A. Tor., D.D. Vic. Lectr.

Biochemistry, v. Fisheries, and v. Med. *infra*

Biology

Bell, H. P., Ph.D. Tor., M.Sc. Prof. Hayes, F. R., Ph.D. Liv., M.Sc., F.L.S., F.R.M.S. Assoc. Prof.

Pelluet, Dixie, M.A. Tor., M.A., Ph.D. Bryn Mawr Asst. Prof.

Dore, W. G., B.A. Qu., M.Sc. McG. (Ecology) Lectr.

Chemistry [McLeod Prof.

Nickerson, C. B., A.M. Clark

King, H. S., A.B., Ph.D. Harv. Assoc. Prof.

Coffin, C. C., M.Sc., Ph.D. McG., B.A., F.R.S.C. Assoc. Prof.

Todd, E. W., B.A. Instr.

McKnight, G. S., B.Sc. Demr.

Walsh, J. P., B.Sc. Demr.

Classics

Nichols, E. W., Ph.D. Yale, M.A. McLeod Prof.

Griffin, A. K., M.A. Tor. and Ox., Ph.D. Tor. (on leave) Prof. (K.).

Cattley, R. E. D., M.A. Camb. Assoc. Prof.

Logan, J. W., M.A. Lectr.

Yeo, C. A., Ph.D. Yale, B.A. Interim Lectr.

Commerce

Bates, S., M.A. Glas. Black Prof.

(K.) = King's College.

MacDonald, S. C., B.A., LL.B., K.C. (Commercial Law) Lectr.
Egan, H. J., B.A., B.Com., C.A. Asst.
Evans, R. D., B.Com., M.A. Asst.

Dentistry, v. *infra*

Economics and Sociology

Maxwell, W. R., M.A. Harv., B.A. Assoc. Prof. (K.).
Prince, Rev. S. H., M.A. Tor., Ph.D. Col. Assoc. Prof. (K.)

Education

Fletcher, B. A., M.A. Brist., B.Sc. Lond. O. E. Smith Prof.

Engineering

Copp, W. P., B.A. Ac., B.Sc. McG., M.E.I.C. Prof.
Theakston, H. R., B.Sc. (Mining) N.S.T.C. Prof.

Engl. Lang. and Lit.

Bennet, C. L., M.A. Camb., A.M. Harv. Munro Prof.
Martin, J. B., M.A. Tor., Ph.D. Harv. Assoc. Prof. (K.).
Jewitt, A. R., M.A. Ox., Ph.D. Cornell, B.A. Assoc. Prof. (K.).

Fine Arts, v. Art

Fisheries

Leim, A. H., B.A., Ph.D. Tor. (Zool.) Assoc. Prof.
Finn, D. B., M.Sc. Manc., Ph.D. Camb., F.C.I.C. (Biochem.) Assoc. Prof.
Beatty, S. A., M.A. Qu., Ph.D. McG. (Biochem.) Assoc. Prof.
Hess, E., M.A. Qu., Ph.D. McG. (Bacteriol) Assoc. Prof.
Cooper, D. Le B., Ph.D. McG., M.Sc. (Chem.) Asst. Prof.

Geology

Douglas, G. V., M.C., M.Sc. McG., F.G.S., F.G.S.A. Carnegie Prof.
MacQuarrie W. R., B.Sc. Stud. Asst.
Macdonald, H. W. Stud. Asst.

History [Munro Prof.

Wilson, G. E., M.A. Qu., Ph.D. Harv.
Walker, Rev. A. S., M.A. Leeds and Birm., B.Litt. Ox. Prof. (K.).
Harvey, D. C., M.A. Ox., B.A., F.R.S.C. (Can. Hist.) Lectr.

Law, v. *infra*

Mathematical Physics

Henderson, G. H., Ph.D. Camb., M.A., B.Sc., F.R.S.C. Prof. (K.).

Mathematics

Macneill, M., M.A. Harv., B.A. Prof.
Adshead, J. G., M.A. Camb. Assoc. Prof. (K.)
Walmsley, C., M.A. Camb. Assoc. Prof.

Medicine and Surgery, v. *infra*

Modern Languages

Gautheron, F. R., Ag. des L. Paris, Chev. Lég. d'H. McLeod Prof.
Richter, L., Dr. jur., Dr. rer. pol. Breslau (German) Prof.
Mercer, C. H., M.A., B.Com. Manc. Assoc. Prof.
du Vernet, G. S., B.A. King's, M.A. St. F. X. and Tor. (French and Spanish) Lectr. (K.).

Music

Dean, H., A.R.C.O., R.C.M. Leipzig Lectr.
McKinley, C. Examiner.

Philosophy [Munro Prof.

Stewart, H. L., M.A. N.U.I. and Ox., Ph.D. N.U.I., F.R.S.C.

Physics

Bronson, H. L., B.A., Ph.D. Yale, F.R.S.C. Munro Prof.

(K.) = King's College.

Johnstone, J. H. L., M.B.E., Ph.D. Yale, M.Sc. O. E. Smith Prof.
MacGregor Fellows
Elliott, L. G., B.Sc.
MacHattie, L. B., B.Sc.
Lewis, E. A., B.Sc. Demr.

Physiology

Weld, C. B., M.A. Brit. Col., M.D., C.M. Tor. Prof.
Grant, Rhoda, M.A., Ph.D. McG. Asst.
Grant, K. M., B.Sc., M.D., C.M. Demr.
Coward, N. B., M.D., C.M. Demr.

Political Science

MacKay, R. A., B.A. Tor., Ph.D. Princ. (on leave) Dennis Prof
Lower, A. R. M., M.A. Tor., Ph.D. Harv. Interim Prof.

Psychology

Page, F. H., M.A. Tor. Assoc. Prof. (K.).

Law

Agency

MacQuarrie, J. T., B.Com., LL.B. Lectr.

Bankruptcy

Walker, J. A., M.A. C.U.A., LL.B., K.C. Lectr.

Contracts, Equity, Corporations, Mortgages

Curtis, G. F., B.A., B.C.L. Ox., LL.B. Sask. Prof.

Evidence

Doull, Hon. John, B.A., LL.B. Lectr.

Hist. Engl. Law [Lectr.

Godfrey, J. W., B.C.L. Ox., B.A.

Insurance

Jones, F. H. M., B.A., LL.B. Lectr.

Procedure

Rutledge, J. E., B.A., LL.B., K.C. Lectr.
Smith, C. B., K.C. Lectr.

Property, Crimes, Legislation, Equity

Willis, J., B.A. Ox. Munro Prof.

Property, Bills and Notes, International L., Conflict of Laws

Cowan, G. S., B.A., B.C.L. Ox., LL.B. Lectr.

Shipping [Lectr.

Burchell, C. J., M.A., LL.B., K.C.
Smith, F. D., K.C. Lectr.

Torts, Sales, Agency, Constitutional L.

MacDonald, V. C., B.A., LL.B., K.C. Weldon Memorial Prof.

Special Lecturers in Law

Covert, F. M., B.A., LL.B. (Winding-up Practice).
Power, J. J., K.C. (Prerogative Writs).
Godfrey, J. W., B.C.L. Ox., B.A. (Foreclosure of Mortgages).
Murray, R. H., B.A., LL.B., Judge of County Court, (Speedy Trials).
Flinn, R. J., LL.B. (Summary Convictions).

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Muir, W. L., M.D., C.M. McG., v. also Surg. Lectr.

Bacteriology, v. Pathology

Biochemistry

Young, E. G., B.A., M.Sc. McG., Ph.D. Camb., F.R.S.C. Prof.
Heard, R. D. H., M.A. Tor., Ph.D. Manc. Asst. Prof.

Dermatology, v. Urol. and Dermatol.

Ear, Nose, and Throat

Doull, A. E., M.D., C.M. McG., F.A.C.S., F.R.C.S.Can. Prof.

Schwartz, H. W., M.D., C.M., F.A.C.S. Assoc. Prof.
Doull, A. E., Jr., M.D., C.M. Demr.

Epidemiology

McLean, A. L., C.P.H., J. Hop., M.D., C.M. Prof.
Peabody, Jean A., B.A. N. Bruns. Statis. Asst.

Eye, Diseases of the, etc.

Kirkpatrick, H. W., M.D., C.M. Demr.
Stoddard, R. H., M.D., C.M. Demr.

Gynæcology, v. Obst.

Histology and Embryology

Bean, R. J., M.S. N.H. Prof.
Bean, Elizabeth S., B.A. Cinn., M.A., Ph.D. Wis. Instr.
MacIntosh, J. W., M.D., C.M. (Structural Neurology) Demr.

Materia Medica

Burbidge, G. A. Lectr.

Medical Jurispr.

Woodbury, Prof. F. V. (v. Dentistry) Lectr.

Medicine and Clin. Medicine

MacKenzie, K. A., M.D., C.M., F.R.C.P.C. Prof.
Carney, M. J., M.D., C.M. McG., B.A., F.R.C.P.C. (Clin. Med.) Assoc. Prof.
Corston, J. R., B.A., M.D., C.M., F.R.C.P.C. Assoc. Prof.
Sieniewicz, T. M., M.D., C.M. Asst. Prof.
Holland, C. W., B.A., M.D., C.M. Asst. Prof. and Clin. Instr.
Burns, G. R., M.D., C.M., F.A.C.P. Asst. Prof. and Clin. Instr.
Reid, J. W., M.D., C.M., M.R.C.P. Asst. Prof. and Clin. Instr.
Miller, A. F., M.D., C.M., F.R.C.P.C. (Med.) Lectr.
Coward, N. B., M.D., C.M. Lectr.

Clinical Instructors

MacIntosh, J. W., M.D., C.M.
Morton, A. R., M.D., C.M.
Demrs. in Clin. Medicine
Merritt, J. W., M.D., C.M.
Rankine, J., B.A., M.D., C.M.

Obst. and Dis. of Women and Children

Maclellan, E. K., M.D., C.M., F.R.C.S. Can., F.C.O.G. (Obstet.) Prof. and (Pract. Obstet.) Demr.
Atlee, H. B., M.D., C.M., F.R.C.S. Edin. and Can. (Obstet. and Gyn.) Prof. and (Pract. Obstet.) Demr.
Macdonald, P. A., M.D., C.M. McG. (Practical O.) Demr. and Chief of Clinic.
Colwell, W. G., M.D., C.M. (Obstet.) Assistant Prof., (Obstet. and Gynæc.) Lectr., (Pract. Obstet.) Demr.
Grant, K. M., B.Sc., M.D., C.M. Lectr. and (Pract. Obstet.) Demr.

Pathology, Bacteriology and Parasitology

Smith, R. P., M.D., Ch.B. Glas., D.P.H. Glas. and Edin. Prof.
Taylor, C. W., M.B., Ch.B. Birm. (Path.) Interim Asst. Prof.
Holland, C. W., B.A., M.D., C.M. Demr.
Gosse, N. H., M.D., C.M., F.A.C.S. (Path.) Demr.

Pediatrics [Prof.

Carney, M. J. (also Clin. Med.)
Wiswell, G. B., B.A., M.D., C.M. Asst. Prof.
Coward, N. B., M.D., C.M. Clin. Instr.
Murray, A. E., B.A., M.D., C.M. Clin. Instr.
Campbell, J. G. D., M.D., C.M. Demr.

Pharmacology

McPhail, M. K., B.A. Br. Col., Ph.D. McG. Assoc. Prof.

Preventive Medicine

Grant, H. G., M.D., C.M., M.R.C.S., L.R.C.P. Lond. Prof.
Forrest, W. D., B.Sc., M.D., C.M. Lectr.
Trefry, Marjorie E. Asst.

Psychiatry

MacKay, R. W. M., M.D., C.M. Asst. Prof.
Morton, A. R., M.D., C.M. Lectr.
MacIntosh, J. W., M.D., C.M. Lectr.

Radiology

Johnston, S. R., M.D., C.M. Lectr. and Demr.

Surgery and Clin. Surgery

MacDonald, H. K., M.D., C.M. McG., F.R.C.S.C. Prof.
MacDougall, J. G., M.D., C.M. McG., F.R.C.S.C., F.A.C.S. Prof.
Murphy, G. H., M.D., C.M., F.R.C.S.C., F.A.C.S. Prof.
Curry, W. A., M.D., C.M. McG., B.A., F.R.C.S. Assoc. Prof.
Kinley, C. E., M.D., C.M., F.A.C.S. Asst. Prof.
Mader, V. O., M.D., C.M. McG. Asst. Prof.
Gosse, N. H., M.D., C.M., F.A.C.S. Asst. Prof.
Muir, W. L., M.D., C.M. McG. Asst. Prof.

Clinical Instructors

O'Brien, H. D., B.A., M.D., C.M., F.A.C.S.
Murphy, A. L., B.A., M.D., C.M., F.A.C.S.
Noble, J. A., B.A. Acad., M.B. Ch.B. Edin., F.R.C.S. Ed.
Ross, E. F., B.Sc., M.D., C.M.
Bethune, C. M., B.Sc., M.D., C.M.

Demrs. in Clin. Surgery

Weatherbe, P., M.B., Ch.B. Edin., F.A.C.S.
Acker, T. B., M.D., C.M.
Acker, J. C., M.D., C.M. McG.

Lects. in Surgery

Marshall, A. M., M.D., C.M.
Covert, G. L., B.Sc., M.D., C.M.
Hebb, H. D., B.Sc., M.D., C.M.

Urology

Mack, F. G., M.B. Tor., B.A., F.R.C.S.C., F.A.C.S. Prof.
Winfield, G. A., B.Sc., M.D., C.M. (Clin. Ur.) Instr.

Dentistry

Bagnall, J. S., D.D.S., F.A.A.R.D. Prof.

Crown and Bridge Work, etc.

Oxner, W. C., D.D.S. B.C.D.S. Prof.
Faulkner, A. W., D.D.S., F.A.C.D. Lectr.

D. Anatomy, etc.

Ritchie, S. G., B.A. N. Bruns., D.M.D., T.D.C. Prof.

D. History, Jurisprudence, Ethics, and Economics

Crosby, H. S., D.D.S. Lectr.

D. Pathology and Therap.

Haverstock, A. B., D.D.S., B.Sc. (Dent.) Tor. Lectr.

Drawing, Modelling, and Metalcraft

Adams, Ellen E. O. Lectr.

Exodontia and Radiology

Hennigar, G. R., D.D.S. Md. Prof.

Materia Medica

Woodbury, K. F., D.D.S. Lectr.

Metallurgy

Bagnall, Prof. J. S. Lectr.
Dawson, W. G., D.D.S. Demr.

Operative D. [Prof.

Beckwith, W. H. H., D.D.S. Penn.
Chudleigh, G. A., D.D.S. B.C.D.S. Lectr.
Dobson, John W., D.D.S. Demr. in Operative Infirmary.

Oral Surg., Anæsth., and Physical Diagnosis

Woodbury, F. V., M.D., C.M., L.R.C.S. and L.R.C.P. Edin., L.F.P.S. Glas. Prof.
Noble, J. A., B.A. Acad., M.B., Ch.B., F.R.C.S. Edin. Lectr.

Orthodontics

Woodbury, W. W., B.Sc., D.D.S. P.D.C. Prof.

Prosthetics D.

Ritchie, S. G., B.A., N. Bruns., D.M.D. T.D.C. Prof.
Bagnall, Prof. J. S. Prof.
Climo, C. B. H., D.D.S. Lectr.
Gardner, O. Tech.

Pre-School Age Clinic

Haverstock, A. B., D.D.S. B.Sc. (Dent.) Tor. Demr.

Adult Clinic

Lubetsky, I. K., D.D.S. Demr.
Hogan, W. V., D.D.S. Demr.
Hennigar, G. R., D.D.S. Md. Demr.
Duxbury, F. R., D.D.S. Demr.

Physical Education

Korning, Sven A. Assoc. Prof.
Wray, Phyllis Instr.

ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, v. *infra.*

PINE HILL DIVINITY HALL, Halifax. Classes and examns. in Hebrew and in New Testament Greek at Pine Hill are recognized as qualifying for the B.A. Students may complete the Div. course at the Coll. and take the B.A. in 6 yrs. Confers the degree B.D. Acting Principal, Rev. J. W. Falconer, M.A., D.D. 3 other Profs.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certifs. of the Coll. enter the 1st or 2nd yr. of the B.A. course. Principal, G. D. Steel, M.A., LL.D.

MEMORIAL UNIVERSITY COLLEGE, St. John's, Newfoundland. Students who have completed the regular course of Memorial Univ. Coll. are admitted to the Arts and Science course without further examn., and may receive credit in classes of the 1st and 2nd yrs. President, A. G. Hatcher, M.A., LL.D.

HALIFAX CONSERVATORY OF MUSIC. Courses recognized for B.Mus. and Lic.Mus.

HALIFAX LADIES' COLLEGE. Students who have completed the regular course and received the Matriculation Diploma are admitted to the Arts or Science course without further examn. The teaching in Household Science is recognized as part of the qualification for the Univ. diploma in that department. Principal, Miss E. F. Blackwood, B.A.

MARITIME COLLEGE OF PHARMACY. Courses recognized as part of the qualifications for B.Sc. (Pharmacy). Dean, G. A. Burbridge.

FISHERIES RESEARCH BOARD OF CANADA. Classes in Fisheries recognized for M.Sc.

CONVENT OF THE SACRED HEART (Mother Superior, Rev. Mother Naud) AND MOUNT ST. VINCENT COLLEGE (Mother General, Rev. Mother Mary Louise). Recognized for Advanced Standing in 1st and 2nd years in Arts.

GENERAL INFORMATION

Dalhousie College, founded in 1818 by the Earl of Dalhousie, was in 1841 granted Univ. powers. For early history, see *Yearbook* for 1929.

Appointments to the Board of Governors are made by the Govr. in Council on the nomination of the Board.

LIBRARIES. 110,360 catalogued vols. and other books and pamphlets. Access also to Science Library—101,000 vols. and pamphlets; Legislative—32,000 vols.; Theol.—25,000 vols. and pamphlets; Nova Scotia Barristers' Society Library—13,700; Citizens' Free Library—37,200 vols. and pamphlets. MUSEUMS: Ornith., Zool. PUBLIC ARCHIVES OF NOVA SCOTIA. LABORATORIES: Physics, Chem., Geol., Biol., Engin., Anat., Bio-Chem., Physiol., Histol., Path., Pharm.

An INSTITUTE OF PUBLIC AFFAIRS, in which Professors of the Faculties of Arts, Law and Medicine cooperate, was established during the session 1936–37. The Institute is assisted by a Council on which the governments of Canada's Maritime Provinces and of Newfoundland and the major Universities of these areas are represented. The research carried out under its auspices is mainly concerned with problems of municipal government and social services. The results of two research projects extending over the whole of Canada—"Canadian Unemployment" and "School Administration"—have been published.

FACULTIES. Arts and Science (including Commerce, Music, Pharmacy, Fisheries, Engineering, Education, and Household Science); Law; Medicine; Dentistry.

MATRICULATION requirements are articulated to the High School system of the Province, which covers the last 4 years of the Public School 12-year course. The compulsory subjects for admission to the B.A. course are (1) English, (2) Latin or Greek, (3) Algebra, (4) Geometry, (5) French or German or a lang. not offered in (2), (6 and 7), any two of Hist., Physics, Chem., Bot., Music, Trigonometry, or another Foreign lang.; B.Sc. and B.Com.—(1), (2) French or German, (3), (4), (5) Latin or Greek, or a language not offered in (2), (6) Physics, or Chem., or Bot., (7) one not offered of Hist., Physics, Chem., Bot., Music, Trigonometry, or another foreign lang.; B.Mus.—(1), (2) French, (3) German, (4) Algebra, (5) Geometry, (6) Music, (7) one other subject; LL.B.—As for B.A. or B.Sc., including Latin, and credit for ten Univ. classes: two in English, one in Latin, one in French or some other foreign language, one in Maths., one in Political Sci., and any four to be chosen from the following: Latin, French or some other foreign language, Hist., Philos., Econ., Political Sci., Accounting, a Science class, Surveying 2; M.D., C.M. and D.D.S.—As for B.A. or B.Sc., including Latin, and the following ten Univ. classes: Engl. 1, Hist. 20, Maths. 1, Chem. 1, 2, 4, Physics 1, Biol. 1, 2A, and an elective.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Com., B.Mus.; 3 yrs., following certain Univ. classes (v. *supra*)—LL.B.; 4 yrs.—D.D.S.; 5 yrs.—M.D., C.M. (taken together); 4 yrs. (following practical experience)—B.Sc. (Phm.). The M.D., C.M., and D.D.S. can be reached by concurrent courses in 8 yrs. The M.A. or M.Sc. is given on successful completion of an approved 1-yr. course of study by a B.A. or B.Sc., respectively, of an approved Univ.

In addition to the ordinary course in Arts and Science and the Honour Courses in certain subjects and groups of subjects, four-year Advanced Courses are provided in Classics, Mathematics, Modern Languages and History.

DIPLOMA COURSES. Engineering, 3 yrs.; Pharmacy, ordinary, 2 yrs.; Education, 1 yr.; candidates must have received the B.A. or B.Sc. degree from a College or Univ. recognized by the Senate. Lic.Mus., 2 yrs.

Music, Pharmacy and Household Science courses are taken in the Affiliated Institutions, v. *supra*.

FEES. Tuition: Arts or Science, $125 p.a. for 5 subjects (laboratory fees

additional, $10-20 per subject); Commerce, for 5 subjects, $175 p.a.; Law, $250 p.a.; Medicine, $275 p.a.; Dent., $250 p.a.; Dip. course in Engin., $232-252 p.a. Other fees: Registration, $20; caution deposit, $2; lab. deposits when required, $20 maximum; Students' Council, $10. Additional annual fee of $250 charged to students from outside British Empire entered in professional or pre-professional courses.

SCHOLARSHIPS FOR GRADUATES. $500 Resident Fellowship for Women; $1500 Travelling Fellowship for Women; Macgregor Fellowships in Physics.

LOAN AND AID FUNDS for students have been instituted.

RESIDENCE. Hostel for 100 women students, erected at a cost of $400,000. Charges from $275 p.a.

STUDENTS' HEALTH SERVICE AND PHYSICAL TRAINING. All students are required to submit to an annual medical examn. at beginning of session. The Students' Health Service provides for this examn. and for medical services for minor ailments.

A modern Gymnasium was constructed in 1931–32 providing adequate facilities for recreation and physical training. Two outdoor asphalt tennis courts were constructed in 1938.

All first-year students are required to take a course in physical training under supervision of Director of Univ. Gymnasium.

PUBLICATIONS. *Calendar* (May); *Annual Report* (Aug.); *Gazette* (Oct.-Mar.); *Dalhousie Review*, quarterly; *Dalhousie Medical Journal* (Undergraduate), 3 times yearly; *Public Affairs*, quarterly.

THE YEAR 1937–38

BENEFACTIONS. $226,448.

NEW BUILDINGS. Medical and Dental Library, with stacks, cataloguing and reading rooms, under construction, at cost of $108,000.

NEW DEPARTMENTS AND POSTS. Assoc. Prof. of Physical Education; Lectr. in Ecology in Dept. of Biology.

OTHER DEVELOPMENTS. Morbidity Survey of section of Nova Scotia commenced by the Dept. of Preventive Medicine for Institute of Public Affairs.

OTHER EVENTS. Centennial of inception of Univ. teaching celebrated on August 16-18, 1938.

Professor R. A. MacKay appointed member of Rowell Commission on Dominion-Provincial Relations (Commission appointed by Canadian Govt. to investigate economic and financial basis of confederation).

CHANGES IN REGULATIONS. Course leading to degree of B.Mus. extended from 3 to 4 yrs. Credit for summer school work at a Univ. not recognized except in special circumstances.

EXTRA-MURAL WORK. Extension Courses for Civil Servants conducted by Institute of Public Affairs.

VISITS. W. B. Brander, Secretary, Universities Bureau of the British Empire, began his tour of the Univs. of Canada with Dalhousie. C. H. Bland, Chairman, Dominion Civil Service Commission, addressed Extension Course for Civil Servants. The Hon. R. B. Ewbank, Commission of Government, St. John's, Newfoundland, was guest of Univ. W. Ivor Jennings, Reader in English Law, Univ. of London, lectured in Law School. Sir Humphrey Rolleston delivered Osler Oration before the Canadian Medical Association Meeting

in Halifax and visited Univ. Dr. Fred Zapffe, Secretary, Association of American Medical Colleges, twice visited the Univ. during yr., inspecting the Medical School prior to its admission to Association of American Medical Colls., and delivering address to graduates at Convocation.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. President Stanley gave Alexander Lectures ("Mathew Arnold"), in Univ. of Toronto. Professor H. L. Stewart gave course of lectures on International Relations, at Univ. of Alberta.

RESIGNATIONS. W. R. Powell, Member of Board; Assoc. Prof. L. I. C. Pearson (Classics), to complete work for Ph.D. at Yale; Prof. N. B. Dreyer (Pharmacol.), on appt. as Research Pharmacologist with Sandoz Chemical Co., Inc., New York.

DEATH. G. Fred Pearson, Chairman of Board, Feb. 1928 to June 1932.

HONORARY DEGREES. *LL.D.*—E. Barker, Prof. of Political Science, Cambridge; Hon. T. A. Campbell, Prime Minister of Prince Edward Island; Hon. A. A. Dysart, Prime Minister of New Brunswick; G. D. Finlayson, Superintendent of Insurance, Ottawa; Colonel G. S. Harrington, formerly Prime Minister of Nova Scotia; A. G. Hatcher, President of Memorial Univ. Coll., Newfoundland; Sir Walter Langdon-Brown, Emeritus Professor of Physic, Cambridge; J. A. Lippincott, Principal of Pictou Academy, 1867–69; Rt. Hon. Lord Macmillan, Lord of Appeal in Ordinary; Hon. A. L. Macdonald, Prime Minister of Nova Scotia; D. A. MacRae, Lecturer in Law, Osgoode Hall, formerly Dean, Dalhousie Law School; W. C. Murray, President Emeritus, Univ. of Saskatchewan; A. Ross, B.A., Rural School Teacher; Hon. G. H. Sedgewick, Chairman of Tariff Board of Canada; K. C. Morton Sills, President, Bowdoin College.

STUDENTS. Full-time: 846, including 33 graduates. Part-time: 23.

DEGREES. B.A., 47; M.A., 12; B.Com., 8; LL.B., 16; B.Sc., 28; M.Sc., 8; M.D., C.M., 32; D.D.S., 9; LL.D., 15. Diplomas: Engin., 8; Pharmacy, 4; Education, 16; Music, 1.

UNIVERSITY OF KING'S COLLEGE, HALIFAX, NOVA SCOTIA

Founded 1802

(Associated with Dalhousie University.)

Postal Address—King's College, Halifax, N.S.

PATRON—THE ARCHBISHOP OF CANTERBURY.

VISITOR AND CHAIRMAN OF THE BOARD OF GOVERNORS—THE BISHOP OF NOVA SCOTIA.

VICE-CHAIRMAN OF THE BOARD OF GOVERNORS—THE ARCHBISHOP OF FREDERICTON.

CHANCELLOR—THE BISHOP OF NOVA SCOTIA.

PRESIDENT AND VICE-CHANCELLOR—Rev. A. STANLEY WALKER, M.A. Leeds and Birm., B.Litt. Ox.

REGISTRAR—Rev. T. H. HUNT, M.A., D.D. Vind.

BURSAR AND DEAN OF RESIDENCE—R. L. NIXON, M.Sc. Vind.

DEAN OF WOMEN—Miss ELIZABETH E. HOOD, B.A.

Divinity—Holmes, Rev. J. H. A., M.A., B.D., D.D. Vind. (Dogmatics, Liturgies, Eccl. Polity and Ch. Hist.), Dean; Hunt, Rev. T. H., M.A., D.D. Vind. (Hebrew, Gk. Test., Patristics), Alexandra Prof.; Prince, Rev. S. H., M.A. Tor., Ph.D. Col. (Apologetics and Comp. Religion), Lectr.; Gardner, Rev. A. le Drew (English Bible), Owen Lectr.; Walker, Rev. A. S., M.A. Birm. and Leeds, B.Litt. Ox. (Ch. Hist., Homiletics, Past. Theol.), Lectr.

For *Classics, Economics and Sociol., English, History, Maths., Math. Physics, Mod. Langs., and Psychol., see* Dalhousie Univ. staff list.

GENERAL INFORMATION

Opened in 1789 at Windsor, N.S., the College was established with full University powers by Royal Charter in 1802. In Sept. 1923, the Univ. removed to Halifax and became associated with Dalhousie Univ. (*see* p. 443). The staffs in Arts of the two Univs are combined in one faculty. The first year courses are given independently to the students of Dalhousie and of King's; but with this exception students of both institutions follow on equal terms the same courses leading to the same degrees. King's holds in abeyance her degree-conferring power in Arts and Science, but retains complete control of her Divinity School as well as of her present endowments, administration of residences, etc. Under the terms of the agreement between Dalhousie and King's, the College was established in Halifax by means of public and other subscrip-

tions and with the financial aid of the Carnegie Corporation. The new buildings, value $450,000, were opened for the session 1930–31. The Univ. is governed by a Board consisting of the Bishops of the dioceses of Nova Scotia and Fredericton and the President of the Univ. *ex officio*, together with 10 members elected by the Alumni Assocn. and 8 elected by each of the diocesan Synods.

Students from the JAMAICA CHURCH THEOLOGICAL COLLEGE who, after a residence of six terms there, pass the required examns. in the subjects of the Divinity course at King's, may receive the diploma of L.S.T.

PUBLICATION. *Calendar* (June).

THE YEAR 1937–38

STUDENTS. Full-time: 96, including 12 graduates.

LAVAL UNIVERSITY, QUEBEC

Founded 1852

VISITOR AND CHANCELLOR APOSTOLIC—THE ROMAN CATHOLIC ARCHBISHOP OF QUEBEC, His Eminence Cardinal JEAN-MARIE RODRIGUE VILLENEUVE, D.D.

RECTOR—Mgr. ARTHUR ROBERT, P.A., M.A., D.Ph., Président de la Corporation du Séminaire de Québec.

SECRETARY OF THE UNIVERSITY AND MODERATOR—Prof. AIMÉ LABRIE, L.Ph., L.Litt.

TEACHING STAFF

Accounting

Boulanger, M., B.A., C.A. Asst. Prof.

Agriculture

Asst. Professors

Jean, F. X., B.A., Ph.L., M.Sc. Cornell.
Gagné, Chs., B.Agr., M.Sc. Cornell.
Bouchard, Georges, B.A., D.Litt.
Sirois, Albert, B.Agr.
Fortin, L. de G., B.Agr.
Pelletier, N.
Giasson, A.
Campagna, E., B.A., B.Agr.
Rodrigue, W., B.Agr.
Proulx, M., B.A., B.Agr.
Scott, A., M.Agr.
St. Pierre, M., B.A.
Dupré, A., M.D.
Tardif, A.
Bernier, P.-E.
Gaudette, G.
St. Pierre, J.
Garon, Ls.-Ph.
Bossé, G.
Carou, J.
Lagloire, P.
Pineau, M.-A.
Pelletier, R.

Anatomy, v. Med.

Apologetics

Cannon, W., M.A. Prof.
Audet, R., D.D. Prof.
Giroux, A., B.A. Asst. Prof.
Gauthier, G., B.L., Asst.

Astronomy, Practical

Smith, A., M.A. Prof.
Benoit, R., B.A., Lic.D. Prof.

Biochemistry

Bois, E., D.Sc. Frib. Prof.

Biology, v. also Physics, Biological

Tremblay, J.-L., B.A., D.Sc. Asst. Prof.
Giraux, M., M.D. Asst. Prof.
Déry, D.-A., D. Dent. Asst. Prof.
Gravel, L., D.Sc. Asst. Prof.
Nadeau, H., M.D. Asst. Prof.
Labrie, J.-A., D.Sc. Asst. Prof.

Botany

Robitaille, A., M.A. Prof.
Rousseau, Z., B.Arp. Asst. Prof.
Gagnon, A., L.Sc. Asst. Prof.

Chemistry

Vachon, Mgr. A., M.A., Lic.Ph., L.Th. (Analyt.) Prof.
Gagné, A., L.Sc. Asst. Prof.

Gagnon, P., D.Sc. Paris, D.Ph. (Inorg.) Prof.
Gingras, R. (Med.) Asst. Prof.
Marcoux, H. (Med.) Asst. Prof.
Risi, L., D.Sc. Frib. (Org.) Prof.
Cloutier, L., D.Sc. (Phys.) Prof.
Ouelleh, C., D.Sc. (Phys.) Asst. Prof.

*Classics**

Labrie, A., B.A., Lic. ès L. Paris Prof.
Lechevalier, J., Agrégé des L. (France) (Latin Lang.) Asst. Prof.
Beaudry, E., B.S. Prof.
Lebel, M., L.Litt., M.A. Asst. Prof.
Bégin, E., B.A., Lic. ès L. Asst. Prof.
Talbot, L., B.A., Lic.Litt. Prof.

Commerce, v. Law

Dentistry, v. Med.

Ecclesiastical History

Gignac, Mgr. J., D.D. Prof.
Gosselin, Mgr. A. E., M.A. Prof.
Savard, G. Prof.

Economics, v. Social and Polit. Econ.

Elocution

Maheux, A., L. ès L., Dip. Philol. Paris, M.A., D.D. Prof.

English

Belleau, Jos., B.A., LL.L. Prof.
Abel, G., B.A. Asst. Prof.

Entomology

Maheux, G., M.A., Ing.For., Lic. ès Sc. Agr. Montréal Prof.

Forestry

Bédard, A., M.A., Ing.For. Prof.
Roy, H., B.A., Ing.For. Prof.
Bourget, M. A., Ing.For. Prof.
Guay, E., B.A., Ing.For. Asst. Prof.
Rousseau, Z., B.A., Ing.For. Asst. Prof.

Forest Law

Richard, L. A., D. en Dr. Prof.
Lussier, O., B.A., Lic.LL. Prof.

French Lang. and Lit., v. also Modern Langs.

Aubert, A., B.A. (Fr. Lang.) Prof.
Geoffrion, L. P., B.A., B.LL., D. ès L. (Hist. of Fr. Lang.) Prof.
Laliberté, M., M.A., L. ès L. Sorbonne (Fr. Lit.) Prof.
Roy, Mgr. C., L. ès L. Sorbonne (Fr. Canadian Lit.) Prof.
Maheux, A., L. ès L., Dip. Philol. Paris, M.A., D.D. (Oratory) Prof.
Viatte, A., Ph.D. Frib., D. ès L. Sorbonne Asst. Prof.

Geology and Mineralogy

Faessler, C., D. ès Sc. Frib. Prof.
Laverdière, W., Lic. ès Sc. Phys., M.A., D. ès Sc. Nat. Lille. Prof.
Dufresne, A.-O., B.Sc., M.Sc. McG. Prof.

History (General)

Savard, G. Prof.

History of Canada

Tessier, A., B.A., S.T D. Asst. Prof.

History of Catholic Church in Canada

Gosselin, Mgr. A. E., M.A. Prof.

Law, v. *infra*

Mathematics

Tremblay, A., M.A. Prof.
Pouliot, A., B.Sc.Ap., Lic. ès Sc. Paris, M.A. Prof.
Hamel, Ed., B.A., B. ès Sc.Ap. Prof.
Bergeron, O., M. ès A. Prof.
Boutin, F., B.A. Asst. Prof.

* Excluding affiliated Classical Colleges.

Laliberté, L., B.A. Asst. Prof.
Savary, R., B.Arp., Ing.For. Asst. Prof.
Larue, A., L.Sc. Asst. Prof.

Medicine, v. *infra*

Modern Languages

Belleau, J., B.A., LL.L. Prof.

Music

Pelletier, Canon J. R., Mus.D. [Prof.
Desrochers, P. C. Prof.
Gagnon, Henri Prof.
Talbot, R., B.Sc., Mus.D. Prof.
Tardif, A., B.A. Prof.
Destroismaisons, L., B.A. Prof.
Bernier, A., Mus.D. Wash. Prof.

Asst. Professors

Vézina, Raoul
Roy, Berthe
Vallières, H.
Mercure, H.
Gravel, L.
St. Hilaire, A.
Darisse, G.
Beaudet, J.-M.
Lapointe, P.-Chs.
Montreuil, A., D.Mus.
Payment, Jules, B.A.
Gervais, G., B.A.

Pedagogy

Roy, Mgr. C., L.L., M.A., Ph.D., Litt.D., O. Lég. d'H. Prof.
Dion, R. P. A., D.Ph. Asst. Prof.

Philosophy

Lebon, Mgr. W., D.D., M.A., D.Phil. Prof.
Ferland, J., B.A., Lic.Phil., D.D. Prof.
Robert, A., M.A., L. en Econ. Louv., D.D. Prof.
Grenier, H., B.A., D.Phil., D. Canon Law, D.D. Prof.
Hamel, A., D.D., D.Ph. Prof.
de Koninck, Chs., D.Ph. Louvain Prof.
Parent, A.-M., B.A., Lic.Phil., D.D. Prof.

Asst. Professors

Roy, M., D.Phil., D.D.
Gaudreault, P.-M., D.Ph., D D.
Castonguay, L., B.A., D.D.
Edmond, Fr., D.Ph.

Physics

Benoit, R., B.A., Lic.Ph. Prof.
Ouellet, C., D.Sc. Asst. Prof.

Physics, Biological

Gravel, Lucien, B.A., D.Sc. Asst. Prof.

Physiology, v. Med.

Religion

Genest, O., B. ès L. Prof.
Gautier, Y. Prof.

Social and Political Econ.

Grégoire, E., Lic. en droit, Sc. Econ. et Soc., Sc. pol. et dip. Louv. Prof.
Bilodeau, E., B.A., LL.L. Asst. Prof.

Social Science

Lévesque, G.-H., D.D. Prof.
Parent, J.-M., D.D. Prof.
Cantin, S., D.Ph. Prof.

Asst. Professors

Caron, W., D.D., D.C.L., D.Ph.
De Montléon, J., L.Ph.
Dorion, Jules, M D.
Magnan, C.-J.
Archambault, J. Papin, B.A.
Pelland, Léo, LL.L., Lic.Ph.
Grégoire, J. E., LL L.
L'Heureux, Eug., LL.L.
Vandry, F.
Hamel, Oscar, LL.L.
Leblond, W., M.D.
Guimont, P.-H., B.A., L.Comm.
Beaulieu, M.-L., LL.D.
Hudon, L.-E., L.Ph., L.D.C.
Lebel, Paul, LL.L.
Pigeon, L.-P., LL.L.
Roy, L., LL.L.
Tréfauier, V., LL.L.
Simard, E., L.Ph., L. Litt.

Surveying

Joncas, P., Ing.Civ., B. ès Sc.Ap., M.Can. Soc. C.E. (Building and S.) Prof.

Massé, A., B.Arp., Ing.For. Asst. Prof.

Theology, v. also Hist. of Catholic Church

Professors

Gagnon, C., D.Th.
Gignac, Mgr. J., D.Th., D. en Dr. Can., Rome (Canon Law).
Vandry, F., D.D., Lic.Ph., B.A.
Garant, C. O., L.Ph., D.Th. (Holy Script. and Orient. Langs.).
Lemieux, E., B.A., Lic.Phil., D.D.
Roy, M., B.A., D.D., D.Phil.
Bureau, A., B.A., Lic.Phil., D.D., D. Canon Law.
Pelletier, G.-L., B.A., L.Ph. D.D., L. in Holy S.

Asst. Professors

Audet, L.
Mathiot, H.
Pelletier, L.
Crépault, P.-E.
Larochelle, J.

Zoology

Robitaille, A., M.A. Prof.

Law

v. also Accounting

Admin., Const., and Munic. L.

Sirois, J., D.LL. Prof.
Duval, A., Lic.LL. Prof.

Civil L.

Roy, F., D.LL., Magistrate, O.I.P. Prof.
Gagné, J.A., D.LL., K.C. Prof.
Hudon, G., B.A., L.LL. Asst. Prof.

Commerc. and Marit. Law

Gravel, J., D.LL., K.C. Prof.

Criminal Law

Taschereau, R., B. ès L., LL.L. Prof.

History of Law

St. Laurent, L., D.LL., K.C. Prof.

Pelland, Léo, LL.L., Lic.Ph. Prof.

International Law

Langlais, Ant., B.A., LL.L. Prof.

Municipal Law

Prévost, J. A., D.LL., K.C.* Prof.

Procedure, Civil

Moraud, Lucien, B.A., LL.L.*† Prof.

Asst. Profs.

Choquette, F., LL.L., K.C.
Rivard, A., LL.L., K.C.

Roman Law

Desrivières, E., D.LL., Prof.

Medicine

Anatomy, Descriptive

Garneau, P., M.D. Prof.
Paquet, Albert Prof.
Simard, A. Asst. Prof.
Roger, P. Asst. Prof.
Ravergne, N. Asst. Prof.
Trempe, F. Asst. Prof.

Anatomy, Pathological

Vallée, A., M.D. (Dir. of P.A. and Bact. Labs.) Prof.

Anat. and Oper. Med., Pract.

Paquet, Achille, M.D. Prof.

Bacteriology

Morin, E., M.D. Prof.

Biology

Potvin, R., M.D. Prof.
Giroux, M. Asst.

Dentistry

Langlois, A., D.Dent. Prof.
Gaudreau, S., D.Dent. Prof.
Hamel, P., D.Dent. Prof.

Dermatology

Mayrand, R., M.D. Prof.
Gaumond, E. Asst.

* Judge, Superior Court.

† Member of Senate of Canada.

Dietetics
Nadeau, H., M.D. Asst. Prof.

Electrotherapy
Gosselin, J. Asst. Prof.

Gynæcology and Gyn., Clin.
Caouette, J., M.D. Prof.
Gagnon, F., M.D. Prof.
Garant, O. Asst. Prof.

Hygiene, Mental
Miller, J.-C. Asst. Prof.

Hygiene, Public
Couillard, E., M.D. Prof.

Laryngology
Dussault, N. A., M.D. (Rhino-Lar., etc.) Prof.
Vaillancourt, J., M.D. Prof.

Legal Medicine
Desrochers, G., M.D. Prof.

Materia Medica
Cliche, E., D.Pharm. Paris, B.Pharm. Asst. Prof.

Medical Ethics
Gagnon, C., D.D. Prof.

Medicine
Fortier, E., M.D. Prof.
Rousseau, L., M.D. Asst. Prof.

Medicine, Clinical
Caron, S., M.D. Prof.
Jobin, J.-B., M.D. Prof.
Lemieux, R. Prof.
Racine, G., M.D. Asst. Prof.
Leblond, S. Asst. Prof.

Mental and Nervous Diseases
Desrochers, G., M.D. Asst. Prof.
Caron, S., M.A. Asst. Prof.
Larue, L., M.D. Asst. Prof.

Ophth. and Ot. Clin., etc.
Dussault, N. A., M.D. Prof.
Pichette, H., M.D. Prof.
Painchaud, P. Asst. Prof.
Frenette, O., M.D. Asst. Prof.

Pathology, Ext. and Clin. Surg.
Dagneau, C., M.D., O.I.P. Prof.
Trempe, F., M.D. Asst. Prof.

Pathology, General
Berger, L., M.D. Stras. Prof.
Desmeules, R., M.D. Prof.

Pediatrics, etc.
Lapointe, D. Asst. Prof.
Langlois, M., M.D. Asst. Prof.

Pharmacy
Marquis, A., Lic.Pharm. Prof.
Demers, U., Lic.Pharm. Asst. Prof.

Physiol. and Chem.
Blanchet, R. Prof.
Gingras, R. Asst.

Physiotherapy
Mayrand, R., M.D. Prof.
Perron, E., M.D. Prof.
Gaumond, Emile, M.D. Asst. Prof.
Gosselin, J., M.D. Asst. Prof.
Samson, M., M.D. Asst. Prof.
Payeur, L.-R., M.D. Asst. Prof.

Surgery, Clinical
Dagneau, C., M.D. Prof.
Vézina, C., M.D. Prof.
Roy, S., M.D. Prof.
Paquet, A., M.D. Prof.
Garneau, P., M.D. Prof.
Petitclerc, L., M.D. Asst. Prof.
Lavergne, N., M.D. Asst. Prof.
Trempe, F., M.D. Asst. Prof.
Roger, J. P., M.D. Asst. Prof.
Roy, F., M.D. Asst. Prof.
Simard, A., M.D. Asst. Prof.

Therapeutics [Asst. Prof.
Lessard, R., M.D. Laval and Paris

Tuberculosis, Clinics
Desmeules, R., M.D. Prof.
Rousseau, L., M.D. Asst Prof.

AFFILIATED INSTITUTIONS

["Affiliation" or—in the case of an institution outside the provinces of Quebec and Ontario—"agrégation" involves control by the Univ. of examinations.]

ÉCOLE AGRICOLE DE STE. ANNE DE LA POCATIÈRE. Director, Prof. F.-X. Jean. 33 other Profs.

ÉCOLES DE GARDES-MALADES. 13 Schools affiliated.

ENSEIGNEMENT MOYEN COMMERCIAL (2 Sch. affil.); ENSEIGNEMENT CLASSIQUE (5 Sch. for Girls affil.; Sch. for Boys: 16 affil. and 2 agrégées). Numerous institutions are affiliated to the Univ. under conditions providing for complete preparation for the Baccalauréat ès Arts (B.A.).

ENSEIGNEMENT CLASSIQUE, 1st degree (*High School*), 6 Schools affiliated.

ÉCOLE DE COMMERCE. 1 School affiliated.

ENSEIGNEMENT PÉDAGOGIQUE. 2 Schools affiliated.

ENSEIGNEMENT PRIMAIRE. 68 Schools affiliated.

GENERAL INFORMATION

The Univ. was founded by the Seminary of Quebec in 1852 under a Royal Charter. A general supervision of teaching and discipline is exercised by the Archbishop of Quebec as Visitor and Chancellor Apostolic and President of the Conseil Supérieur of Archbishops and Bishops of the Province, except those of the ecclesiastical province of Montreal. The Profs. of the Faculty of Theology are nominated by the Visitor, those of other Faculties by the Conseil de l'Université, composed of the Directors of the Seminary of Quebec and 3 Senior Profs. of each Faculty.

LIBRARIES, General, 224,646 vols.; others, 479,208 vols. MUSEUMS AND DIRECTORS: Paintings, Mgr. F. Pelletier; Ethnology and Religion, G.-E. Demers; Numismatics, A. Aubert; Physics, R. Benoit; Geology and Mineralogy, W. Laverdière; Botany, A. Robitaille; Zoology, R. Dolbec; Ornithology, G. Langelier; Entomology, G. Maheux; General Anatomy, P. Garneau; Pathological Anatomy, A. Vallée; Forestry, A. Bédard; Conchyliology, R. Dolbec; Coins, A. Aubert. LABORATORIES: Chem., Phys., Bact., Biol., Physiol., Anat., Pathol., Clinic., Physio-pathol., Biochem., Botany, Mineral., Geology, Optics.

FACULTIES. Theology, Philosophy, Law, Medicine, Letters, Sciences, Arts. Dean of Fac. of Letters: Mgr. Camille Roy; Secretary: Maurice Lebel. Dean of Fac. of Sciences: Mgr. Alexandre Vachon; Secretary: Adrien Pouliot.

DEGREES, DIPLOMAS AND TEACHING ACTIVITIES. The Univ. perpetuates the stages by which a Degree was, and still is, reached in the Univ. of Paris. The Baccalauréat (B. ès A., etc.) is not the equivalent of any of the English Degrees, but is an official certificate (recognized by the Govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, medicine, or applied science, or the Higher studies. It is obtained before he leaves the affiliated Institute, Seminary, or College at which he has studied. Students who reach a certain standard in both letters and sciences obtain the B. ès A. After the B.A. the student may proceed to the Baccalauréat in Theology (3 yrs.); in Philosophy (2 yrs.); in Civil Law (3 yrs.); in Music (2 yrs.); in Pharmacy (3 yrs.); in Surveying (2 yrs.); in Agriculture (3 yrs.); in Medicine (2 yrs.); in Commerce (2 yrs.);

in Applied Sciences (4 yrs.). The course for the Licence covers 3 yrs. in Philos. (L. en Ph.) ; 2 yrs. in Letters (L. ès L.) ; 3 yrs. in Sciences (L. ès Sc.) ; 3 yrs. in Law (L. en Dr.) ; 4 yrs. in Theol. (L. en Th.) ; 2 yrs. in Music. To obtain the Doctorate it is necessary to support successfully in public a thesis and propositions as in French Univs. The D. en M. or M.D. is granted after 5 yrs.' study by examn.

The Diploma in Forestry implies 3 yrs.' study in the Sch. of Surveying and Forestry.

The Faculty of Sciences provides a 4 yrs.' course leading to the Baccalauréat in Applied Sciences, or to a Licence and to a Doctorate in Sciences.

The Faculty of Arts includes instruction for the following: doctorate, licence, baccalauréat, and diplomas and certificates of the secondary (College of Arts, High School) and the primary degree, with a view to promote among all classes of the population a desire for learning and an encouragement to proceed from lower to higher degrees.

The Univ. has granted affiliation to about 70 private schools for boys and girls. At the age of 12 yrs. the children may choose between the primary course with three levels : middle (*moyen*, 2 yrs.) ; upper (*supérieur*, 2 yrs.) and *supplementary* (1 yr.), a certificate being granted, after univ. examn., for each level ; and the classical course of the first degree (High School, 4 yrs.), with a certificate of proficiency after the first, the second and the third year, and a diploma of matriculation at the end of the fourth year. The main difference between the two courses is the teaching of Latin, and the advanced teaching of mathematics and of history, in the High Schools.

The High School course is given in Schools limited to such course, or in Colleges and "Séminaires," which give, after the High School course, the teaching usual in Colleges of Arts. In these last institutions Greek is taught for 4 yrs. ; philosophy (theory, history, essays) for 2 yrs. ; Latin for 6 yrs.

RECOGNITION of the B. ès A. of Laval is accorded by the Univs. of Rome, of France and of Louvain, and by Canadian Univs. and some of those of the U.S.A.

FEES for tuition, $115 to $175 p.a., with an extra charge for students other than Canadian.

RESIDENCE. Students of Theol. reside at the Grand Seminary. The Maison des Étudiants, 49 St. Joachim St., provides accommodation (rooms only) for about 30 students, $8 per month. Other students live with families approved by the Moderator.

SCHOLARSHIP OPEN TO GRADUATES. $400 p.a. for 2 years.

EXTRA-MURAL WORK. Summer courses in French, Pedagogy, Music, Mathematics, Classics, Philosophy.

PUBLICATIONS. *Annuaire général* (July), *Special Calendars*, for Law, Medicine, Sciences, Philosophy, Social Sciences, Nursing, Music and Letters ; *Le Canada français* (*Literary Review*), *Le Laval médical*, *Le Bulletin de la Société de Géographie*, *Le Naturaliste Canadien*. Students' weekly paper, *Hebdo-Laval* (Oct. to May).

THE YEAR 1937–38

BENEFACTIONS. Govt. of Province of Quebec, yearly contribution of $100,000 for building and maintenance of School of Mining ; Mrs. Jules Tessier, widow of late Senator Jules Tessier, $1000 by will, for general purposes.

NEW BUILDINGS. School of Mining building under construction.

NEW DEVELOPMENTS. Creation of 2 Faculties : Letters, Sciences. Fac. of

Letters has two depts. : the École Normale Supérieure, for the preparation of professors for High Schools and Colleges of Arts, and School of Modern Languages. Fac. of Sciences will have Depts. of Chemistry, Biology, Mathematics, Mining and Metallurgy, Geology, and Schools of Agriculture and Surveying and Forestry. Anatomy (theory and practice) will be taught entirely in first year of medical course, Physiology entirely in second yr. Teaching of chemistry, in Medical School, will change to Biochemistry. The School of Social Sciences is now called the School of Social, Political and Economical Sciences and is affiliated to the Fac. of Philosophy.

DEATHS. Dr. P.-H. Bédard, Dr. V. Martin (Contagious Diseases), Dr. P. Coote (Ot-rhino-laryngology).

HONORARY DEGREES. *D. ès A.*—Horatio Walker, Canadian painter. *D. ès I.*—Henri Ghéon, French writer and dramatist.

RETIREMENT. Rev. Mgr. L.-A. Paquet (Prof. Emeritus), Dean and Prof., Fac. of Theology.

STUDENTS. Full-time : 2864. Part-time : 79.

DEGREES. *Divinity*, Bacc. 15, Lic. 12 ; *Arts*, B.A., 225 ; *Laws* Lic. 27, Doct. 1 ; *Science*, Bacc. 3, Lic. 1 ; *Medicine*, Bacc. 34, Doct. 41 ; *Letters*, Lic. 6, Doct. 1 ; *Agriculture*, Bacc. 17 ; *Commerce*, Bacc. 9 ; *Surveying*, Bacc. 24 ; *Pharmacy*, Bacc. 6 ; *Music*, Bacc. 30. DIPLOMAS : *Letters*, 6 ; *Commerce*, 165 ; *Social Sciences*, 3 ; *Nursing*, 70 ; *Music*, 302 ; *Household Science*, 3 ; *Mod. Languages*, 4 ; *Matriculation*, 435.

McGILL UNIVERSITY, MONTREAL

Founded 1821

VISITOR—H.E. The GOVERNOR-GENERAL OF CANADA.

CHANCELLOR—Sir EDWARD W. BEATTY, G.B.E., LL.D., D.C.L., K.C.

PRINCIPAL AND VICE-CHANCELLOR—LEWIS W. DOUGLAS, B.A. Amherst, LL.D.

SECRETARY AND BURSAR—F. O. STREDDER, M.A., Ph.D.

REGISTRAR—T. H. MATTHEWS, M.A. Ox.

LIBRARIAN—G. R. LOMER, M A., Ph.D. Col., F.L.A.

HON. REPRESENTATIVE IN GREAT BRITAIN—W. A. BULKELEY-EVANS, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C.4.

INCORPORATED COLLEGES

MACDONALD COLLEGE, at Ste. Anne de Bellevue (about 25 miles from Montreal), including Faculty of Agric., School for Teachers, and School of Household Science.

ROYAL VICTORIA COLLEGE, Montreal (the Women's College of the Univ.). Warden—Mrs. W. Grant.

TEACHING STAFF

Accountancy

Thompson, R.R., M.C., V.D., A.C.A. (Engl. & Wales), C.A. Can. Prof.
Ballantyne, A., C.A. Lectr.
Burke, T. V., B.Com., C.A. Lectr.
Elderkin, C. F , B.Com., C.A. Lectr.
Jones, T. P., C.A. Lectr.
MacKenzie, G. I., B.Sc. Lectr.
Patton, D. R., B.Com., C.A. Lectr.
Seymour, P. F., C.A. Lectr.
Tucker, L. A., C.A. Lectr.
3 Demrs.

Agriculture, v. *infra* Macdonald College

Anatomy

Martin, C. P., M.A., M.B., Ch.B., B.A.O., Sc.D. Dub. Reford Prof.
O'Brien, H. D., B.A., M.D. Dublin Asst. Prof.
7 Demrs.

Architecture

Traquair, R., M.A., F.R.I.B.A. Macdonald Prof.
Nobbs, P. E., M.A. Edin., R.C.A., F.R.I.B.A., F.R.A.I.C. (Design) Prof.
Turner, P. J., F.R I.B.A., F.R.A.I.C. Prof.
Chambers, F. P., M.A. Camb. Asst. Prof.
2 Demrs.

Biochemistry

Collip, J. B., M.A., Ph.D. Tor., M.D., D.Sc. Alb. and Harv., LL.D. Manit., F.R.S.C., F.R.C.P., F.R.S. Prof.
Thomson, D. L., M.A., B.Sc. Aberd., Ph.D. Camb., F.R.S.C. Prof.
Denstedt, O. F., B.Sc. Manit., Ph.D. Lectr.
2 Demrs.

Botany

Scarth, G. W., M.A. Edin., D.Sc., F.R.S.C. Macdonald Prof.

Gibbs, R. D., M.Sc., Ph.D. Lond. Asst. Prof.
1 Instr., 1 Demr.

Chemistry

Maass, O., M.Sc., Ph.D. Harv., F.R.S.C. (Phys. C.) Macdonald Prof.
Hibbert, H., LL.D. Brit. Col., D.Sc. Manc., Ph.D. Leip., F.R.S.C. (Indust. and Cellulose C.) E. B. Eddy Prof.
Hatcher, W. H., M.Sc., Ph.D., F.R.S.C. Prof.
Steacie, E. W. R., M.Sc., Ph.D., F.R.S.C. Assoc. Prof.
Phillips, J. B., M.Sc., Ph.D. Assoc. Prof.
Mennie, J. H., M.A. Br. Col., B.Sc. Ox., Ph.D. Asst. Prof.
Barnes, W. H., M.Sc., PhD., F.R.S.C. Asst. Prof.
Stevens, P. G., A.B., Ph.D. Harv. Asst. Prof.
Holden, J. H., S.M. Mass. Inst. Tech. Sessional Lectr.
MacLaughlan, D. W., Ph.D. Sessional Lectr.
Nicholls, R. V. V., M.Sc., Ph.D. Sessional Lectr.
18 Demrs., 3 Graduate Assts.

Classics

Woodhead, W. D., B.A. Ox., Ph.D. Chic. Mills Prof.
Carruthers, C. H., B.A. Ox., M.A. Tor., Ph.D. Chic. (Class. Philol.) Prof.
Thompson, A. M., M.A. Qu., Ph.D. Harv. Assoc. Prof.
McCullagh, P. F., M.A. Asst. Prof.
Counsell, E. M., B.A. Ox. Lectr.

Commerce, v. also Acctcy., Law
Sugars, Prof. R. M., M.A. Dub., A.I.A., C.P.A. Dir. of School (v. also Spanish)

Dentistry, v. *infra*

Economics and Political Science

Hemmeon, J. C., M.A., Ph.D. Harv. Angus Prof.
Day, J. P., B.A., B.Sc. Lond., D.Phil. St. And. Prof.
Culliton, J., B.A. Sask., M.A. Asst. Prof.
Forsey, E., M.A. Ox. and McG. Lectr.
Marsh, L. C., B.Sc.(Econ.) Lond., M.A., F.S.S. Sessional Lectr.
2 Graduate Fellows.

Education, v. also Macdonald Coll. *infra*

Hughes, J., M.A. Wales Macdonald Prof.
Southam, H. D., D.Ped. Tor. Asst. Prof.
George, A. R., B.A. Brist., B.D. Lond. Sessional Lectr.

Embryology, v. Histol. and Embryol.

Engineering, v. *infra*

English Lang. and Lit.

Macmillan, Hon. C., M.A. McG. and Harv., Ph.D. Harv. Molson Prof.
Files, H. G., M.A., Ph.D. Harv. Assoc. Prof.
Noad, A. S., M.A. Asst. Prof.
Newton, T. F. M., M.A. McGill and Harv. Asst. Prof.
Mackenzie, Mary E., B.A., Dal., M.A. Lectr.
MacGachen, Freda, M.A. Lectr.
5 Assts.

French [Prof.
du Roure, R., Agrégé l'U. de France
Furness, Mrs. Lucie T., L. ès L. Univ. de France Asst. Prof.
d'Hautserve, L., Dip. d'Ingénieur, L. en Droit, Paris, M.A. Asst. Prof.
Henry, Mlle. C. Asst. Prof.
McAndrew, W. A. G., B.A. Tor., D. de l'U. Paris Sessional Lectr.

Genetics

Huskins, C. L., B.S.A., M.Sc. Alb., Ph.D., D.Sc. Lond., F.R.S.C. Prof.

Reed, Sheldon C., B.A., Dartmouth, Ph.D. Harv. Lectr.

1 Demr., 2 Assts.

Geology

O'Neill, J. J., M.Sc., Ph.D. Yale, F.R.S.C. Dawson Prof.

Graham, R. P. D., B.A. Ox., D.Sc., F.R.S.C. (Mineral) Prof.

Clark, T. H., Ph.D. Harv., F.R.S.C. (Palæont.) Logan Prof.

Gill, J. E., Ph.D. Princeton, F.R.S.C. Asst. Prof.

Osborne, F. Fitz, M.A.Sc. Brit. Col., Ph.D. Yale, F.R.S.C. Asst. Prof.

German

Graff, W. L., Ph.D. Lov. Assoc. Prof.

Meyer, Bertha, M.A. Lectr.

Beck, J. R., M.A. Stanford. Sessional Lectr.

Histology and Embryology

Simpson, J. C., B.Sc., LL.D. Mt. All. Prof.

Selye, H., M.D., Ph.D., Prague Asst. Prof.

Dalton, A. J., B.S. Wesleyan, A.M., Ph.D. Harv. (Histol.) Lectr.

2 Demrs.

History

Fryer, C. E., M.A., Ph.D. Harv., F.R.Hist.S. Prof.

Adair, E. R., B.A. Lond., M.A. Camb., F.R.Hist.S. Assoc. Prof.

Bayley, C. C., M.A. Manc., Ph.D. Chic. Lectr.

Cooper, J. I., M.A. W. Ont. Sessional Lectr.

Household Science, v. Macdonald Coll. *infra*

Law, v. *infra*

Library School

Lomer, G. R., M.A., Ph.D. Col., F.L.A. Director and Prof.

5 Assts.

Logic, v. Philos.

Mathematics

MacLean, N. B., D.S.O., M.A. Tor., Ph.D. Chic., F.A.I.A. (Appl. M.) Prof.

Sullivan, C. T., B.A. Dal., Ph.D. Chic., D.Sc., F.R.S.C. (Pure M.) Redpath Prof.

Gillson, A. H. S., M.A. Camb. Prof.

Williams, W. L. G., M.A. Ox., Ph.D. Chic., F.R.S.C. Prof.

Tate, H., B.Sc. N.U.I., M.A. Dub. Assoc. Prof.

Wood, F. M., B.Sc., M.A. Qu. (Civ. Eng. and Applied Mechs.) Asst. Prof.

Pall, G., M.A. Tor., Ph.D. Chic. Asst. Prof.

Craig, Carleton, B.A., M.Eng. Lectr.

Ross, W. B., M.Sc., Ph.D. Sessional Lectr.

Medicine, v *infra*

Mineralogy

Graham, R. P. D., B.A. Ox., D.Sc., F.R.S.C. Prof.

Mining, v. Engineering *infra*

Music

Clarke, D., M.A., Mus.B. Camb., F.R.C.O., F.R.C.M. Dean of Fac. and Dir. of Conservatorium.

Cooper, I., Mus.Bac. (Harmony and Counterpoint) Lectr.

Weatherseed, J. J., A.R.C.O. (Form and Hist. of M.) Lectr.

24 Assts.

Nursing

Lindeburgh, Marion, R.N., B.Sc. Col.
Actg. Director of School.
12 Lectrs. and Instrs. (part-time).

Philosophy [Macdonald Prof.

Hendel, C. W., Litt.B., Ph.D. Princet. (Moral Ph.)
Maclennan, R. D., M.A. Edin.
Frothingham Prof.
Fulton, J. S., Ph.D. Corn. Lectr.
Currie, C., M.A. Sessional Lectr.

Physics

Shaw, A. N., M.A. Camb., D.Sc., F.R.S.C. Prof.
King, L. V., M.A. Camb., D.Sc., F.R.S. Macdonald Prof.
Keys, D. A., M.A. Tor., Ph.D. Camb. and Harv., F.R.S.C. Prof.
Foster, J. S., D.Sc. Acad., Ph.D. Yale, F.R.S.C., F.R.S. Macdonald Prof.
Reilley, H. E., M.Sc. Assoc. Prof.
Watson, W. H., M.A., Ph.D. Camb. and Edin., F.R.S.C. Asst. Prof.
Douglas, A. V., M.B.E., M.Sc., Ph.D., F.R.A.S. (Astro-Phys.) Lectr.
Watson, H. G. I., B.A. Tor., M.Sc., Ph.D. Lectr.
Terroux, F. R., M.Sc., Ph.D. Camb. Lectr.
7 Demrs., 1 Instr.

Physiology

Tait, J., D.Sc., M.D. Edin., F.R.S.C. Drake Prof.
Babkin, B. P., M.D. St. Pet., D.Sc. Lond., F.R.S.C. Research Prof.
Giblin, N., M.C., B.A. Tas., M.B., Ch.B. Ed. Asst. Prof.
Dworkin, S., M.Sc., M.D. Lectr.
Ross, A. Douglas, M.D. Harv., M.Sc., Ph.D. Lectr.
1 Demr.

Psychology, v. also Med. *infra*

Tait, W. D., B.A. Dal., M.A., Ph.D. Harv., F.R.S.A. Prof.
Kellogg, C. E., B.A. Bowdoin, M.A., Ph.D. Harv. Assoc. Prof.
Morton, N. W., M.A., Ph.D. Lectr.
1 Demr., 1 Asst.

Sociology [Prof.

Dawson, C. A., B.A., Ph.D. Chic.
Faris, Robert E. L, Ph.B., M.A., Ph.D. Chic. Asst. Prof.
1 Asst.

Spanish

Sugars, R. M., M.A. Dub., A.I.A., C.P.A. Prof.

Zoology

..... Strathcona Prof.
Brittain, W. H., M.S. (Agr.), Ph.D. Corn., F.R.S.C. Act. Head
Berrill, N. J., B.Sc. Brist., Ph.D., D.Sc. Lond., F.R.S.C. Assoc. Prof.
Wynne-Edwards, V. C., M.A. Ox. Asst. Prof.
Taylor, B. W., M.Sc. Hon. Lectr.
Cameron, T. W. M., T.D., M.A., Ph.D., D.Sc. Edin., M.R C.V.S. Sp. Lectr.
1 Demr.

Engineering

Civil Engineering and Applied Mech.

Brown, E., M.Sc. Manc., M.Eng. Liv. Dean and Prof.
Jamieson, R. E., M.Sc. Wm. Scott Prof.
Dodd, G. J., M.Sc. Assoc. Prof.
Weir, J., B.Sc. (Geol.) Assoc. Prof.
Wood, F. M., M.A., B.Sc. Qu. Asst. Prof.
Craig, C., B.A., M.Eng. Lectr.
2 Assts.

Electrical Engineering

Christie, C. V., M.A., B.Sc. Dal. Macdonald Prof.

Wallace, G. A., M.Sc. Assoc. Prof.
Burr, E. G., B.Sc. Asst. Prof.
Schippel, W. H., B.Sc., M.Eng. Lectr.
Howes, F. S., Ph.D. Lond. Lectr.

Geodesy, v. Surveying and Geodesy

Highway and Municipal E.
French, R. de L., B.Sc., C.E. Prof.

Law, Engineering
Culliton, J., B.A. Sask., M.A. Asst. Prof.
Humphrey, John P., B.Com., B.A., B.C L. Lectr.
Patton, D R., B.Com., C.A. Lectr.

Mechanical Engineering
McKergow, C. M., M.Sc. Workman Prof.
Roberts, A. R., M.Sc. Prof.
Coote, J. A., B.Sc. Asst. Prof.
Patten, R. H., B.Sc. Asst. Prof.
McCurdy, L. R., M.Sc. Asst. Prof.
1 Asst.

Metallurgical Engineering
MacEwan, J. U., B.Sc. Qu., M.S. Montana Birks. Prof.
Sproule, G. St. G., M.Sc. Assoc. Prof.
1 Research Fellow.

Mining Engineering
McBride, W. G., B.Sc., M.Inst.M.M. Macdonald Prof.
Bell, J. W., M.Sc. Prof.
Brown, O. N., B.Sc. Assoc. Prof.
1 Research Fellow.

Surveying and Geodesy
Kelly, A. J., B.Sc. (Surv.) Assoc. Prof.
Weir, J., B.Sc. (Geod.) Assoc. Prof.
1 Lectr.

Law

Civil Law
Chipman, W. F., B.A., B.C.L., K.C. Prof.
LeMesurier, C. S., B.A., B.C.L., K.C. Dean & Prof.
Scott, F. R., B.A. Bishop's and Ox., B.Litt. Ox., B.C.L. Prof.
Surveyer, Hon. Justice E. F., B.A., LL.M. Laval, Louisiana, LL D., B.C.L., F.R.S.C. Prof.

Civil Procedure
Tyndale, O. S., M.A., B.C.L., K.C. Prof.
Abbott, D. C., B.C.L. Lectr.

Commercial Law
Bruneau, A. S., B.A., B.C.L., K.C. Prof.

Lecturers
Claxton, B., B.C.L.
Mathewson, J. A., B.A., B.C.L., K.C.
Nicholson, W. C., B.A., B.C.L.
Rodier, L., B.A., LL.B.
Smith, A. I., B.A., B.C.L.
Symons, F. S.
Wilson, K. A., B.C.L., K.C.

Criminal Law
Fauteux, G., B.A., LL.L. Mont., K.C. Lectr.

Law of Insurance
Claxton, B., B.C.L. Lectr.

Roman Law
Corbett, P. E., M.A. Ox. and McG. Gale Prof.
Humphrey, John P., B.A., B.C.L. Lectr.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthesia
Stewart, C. C., M.D., C.M. (Surg. A.) Lectr.

Bourne, W., M.Sc., M.D., C.M., F.R.C.P.C., F.I.C.A. Lectr.
2 Demrs.

Bacteriology and Immunity

Murray, E. G. D., O.B.E., M.A. Camb., L.M.S S.A., F.R.S.C. Prof.
Smith, F., M.A., M.B., B.Ch. Camb., M.R.C.S., L.R.C.P. Assoc. Prof.
Roy, T. E., B.A. Acadia, M.D., C.M. Asst. Prof.
Kelly, C. D., M.S.A. Br. Col., Ph.D. Corn.
3 Demrs.

Dermatology

Burnett, P., D.S.O., M.D., C.M., M.R.C.S., L.R.C.P. Clin. Prof.
Burgess, J. F., M.B., F.R C.P.C. Clin. Prof.
3 Demrs. and 1 Asst. Demr.

Gynæcology, v. Obstetrics and Gynæcology

Medicine, v. also Bact., Ped.

Meakins, J. C., LL.D. Edin., M.D. Syd., M.D., C.M., F.R.C.P. Can., Edin. and Lond., F.R.C.S.Ed., F.R.S.C. Prof.
Gordon, A. H., M.D., C.M., D.C.L. Acadia, F.R.C.P.C. Prof.

Assoc. Profs.

Mason, E. H., Ph.B., M.D., F.R.C.P.C.
Rabinowitch, I. M., D.Sc., M.D., C.M., F.R.C.P.C., F.A.C.P.

Asst. Profs.

Kaufmann, J., M.D., C.M., F.R.C.P.C.
Lewis, D. S., M.Sc., M.D., F.R.C.P.C.
Moffatt, C. F., B.A., M.D., C.M.
Birchard, C. C., M.D. Tor., M.R.C.P. Lond., F.R.C.P.C.
Montgomery, Lorne C., M.D., C.M., F.R.C.P.C.
Ross, J. B., M.D., C.M., F.R.C.P.C.
Browne, J. S. L., B.Sc. (Med.), Ph.D., M.D., C.M.

Lecturers

Browne, J. G., B.A., M.D., C.M.
Byers, J. R., M.D., C.M., L.R.C.P. Ed., F.R.C.P.C. (Tuberc.).
Campbell, D. G., B.A., M.D., C.M., F.R.C.P.C.
Bourne, C. R., M.D., C.M.
Hardisty, R. H. M., D.S.O., M.C., B.A., M.D., C.M.
Henderson, A. T., M.D., C.M.
McKechnie, D. W., D.S.O., V.D., M.D., C.M.
Scriver, W. de M., B.A., M.D., C.M., F.R.C.P.C.
Brow, G. R., M.D., F.R.C.P.C.
McIntosh, J. F., B.A., M.D., C.M.
Gordon, Keith, B.A., M.D., C.M., F.R.C.P.C.
Mills, E. S., M.Sc., M.D., C.M., F.R.C.P.C.
20 Demrs. and 5 Asst. Demrs.

Neurology and Neuro-Surgery

Penfield, W. G., Litt.B. Princ., M.A., D.Sc. Ox., M.D. J. Hopk., F.R.C.S.C., F.R.S.C. Prof.
Russel, C. K., B.A., M.D., F.R.C.P.C. Assoc. Prof.
Cone, W. V., B.Sc., M.D., F.R.C.S.C. Assoc. Prof.
Mackay, F. H., B.A., M.D., C.M., F.R.C.P.C. Clin. Prof.
Petersen, J. N., B.Sc., M.D., C.M. Lectr.
Viner, N., B.A., M.D., C.M. Lectr.
Elvidge, A. R., M.Sc., Ph.D., M.D., C.M., F.R.C.S.C. Lectr.
McEachern, D., M.D., Manit. Lectr.
Young, A. W., M.D., C.M., F.R.C.P.C. Lectr.
Childe, A. E., M.D. Manit. Lectr.
Keith, H. M., M.B. Tor. Lectr.
Harrower, Molly, Ph.D. Smith, Lectr.

Hebb, D. O., B.A. Dal., Ph D. Harv., M.A. Lectr.
11 Demrs. and Research Fellows.

Obstetrics and Gynæcology

Fraser, J. R., M.D., F.R.C.S.C., F.A.C.S., F.C.O.G. Prof.
Bauld, W. A. G., D.S.O., B.A. Dalh., M.D., C.M., F.R.C.S.C., F.A.C.S., M.C.O.G. Asst. Prof.
Campbell, A. D., M.D., C.M., F.R.C.S.C., F.A.C.S., M.C.O.G. Asst. Prof.

Clinical Professors

Goodall, J. R., O.B.E., B.A., D.Sc., M.D., C.M., F.A.C.S., F.C.O.G.
Duncan, J. W., M.D., C.M., F.R.C.S.C., F.A.C.S., F.C.O.G.
Burgess, H. C., M.D., C.M., F.R.C.S.C., F.A.C.S., F.C.O.G.
Melhado, G. C., M.D., C.M., M.C.O.G., F.A.C.S. Lectr.
Patrick, I., B.A., M.D., C.M., M.C.O.G. Lectr.
8 Demrs. and Asst. Demrs.

Ophthalmology [Prof.

Tooke, F. T., B.A., M.D., C.M.
McKee, S. H., C.M.G., B.A. N. Brun., M.D., C.M., F.R.C.S.C. Clin. Prof.
MacMillan, J. A., M.D., C.M. Lectr.
5 Demrs. and Asst. Demrs.

Oto-Laryngology

..... Prof.
Ballon, D. H., B.A., M.D., C.M., F.R.C.S.C., F.A.C.S. Asst. Prof.
Hodge, G. E., M.D., C.M., F.A.C.S., F.R.C.S.C. Asst. Prof.
McNally, W. J., B.A., M.D., C.M., Dal. D.Sc., D.L.O. Eng., F.R.C.S.C. Lectr.
Wright, R. P., M.D., C.M., F.R.C.S.C. Lectr.
4 Demrs. and Asst. Demrs.

Pathological Chemistry

Browne, J. S. L. (also Med.) Lectr.
Mason, E. H. (also Med.) Lectr.
Rabinowitch, I. M. (also Med.) Lectr.

Pathology

..... Strathcona Prof.
Rhea, L. J., B.Sc. Texas, M.D. Johns H. Prof.
Waugh, T. R., B.A. Yale, M.D., C.M. Asst. Prof.
Pritchard, J. E., M.D. Manit. Lectr.
Cone, W.V., B.Sc., M.D. (Neuro-P.) Lectr.
4 Asst. Demrs.

Pediatrics

Struthers, R. R., B.A., M.D., F.R.C.P.C. Prof.
Ross, S. G., D.S.O., B.A., M.D., C.M., M.R.C.P. Asst. Prof.
Lindsay, L. M., M.D., C.M. Lectr.
Goldbloom, A., B.A., M.D., C.M., F.R.C.P.C. Lectr.
Wright, H. P., B.A., M.D., C.M., F.R.C.P.C., F.A.C.P. Lectr.
6 Demrs. and Asst. Demrs.

Pharmacology and Therapeutics

Stehle, R. L., M.A. Ohio, Ph.D. Yale (Pharmacol.) Prof.
Lewis, D. S., M.Sc., M.D., F.R.C.P.C. (Therap.) Assoc. Prof.
Melville, K. I., M.Sc., M.D., C.M. (Pharmacol.) Asst. Prof.
Campbell, D. G., B.A., M.D., C.M., F.R.C.P.C. (Therap.) Lectr.
Scriver, W. de M., B.A., M.D., C.M., F.R.C.P.C. (Therap.) Lectr.
Brown, N., M.D., C.M. (Physio-Therapy) Lectr.

Psychiatry

Porteous, C. A., M.D. Qu. Clin. Prof.
3 Demrs.

Public Health and Prev. Med.

Fleming, A. G., M.C., M.D., D.P.H. Tor., F.R.C.P.C. Dean of Fac., Prof. and Director.
Macdonald, R. St. J , J.P., V.D., B.A. St. F.X., M.D., C.M., D.P.H. (Hyg.) Assoc. Prof.
Mitchell, W. T. B., M.B. Tor. (Mental Hyg) Asst. Prof.
Pedley, F. G., Dr.P.H. Harv., C.P.H. J. Hopk , B.A., M.D., C.M. Asst. Prof.
2 Demrs.

Radiology

Brooks, E. C., M.B., Ch.B., L.R.C.P. and S. Ed. (Med. R.). Lectr.
Ritchie, W. L., M.B. Tor., F.R.C.P. C. (Surg. R.) Lectr.

Surgery and Clinical Surgery

Patch, F. S., B.A., M.D., C.M., F.R.C.S.C. (Urology) Prof.
McKenty, F. E., M.D., F.R.C.S. Eng., F.R.C.S.C., F.A.C.S. Assoc. Prof.
Henry, C. K. P., M.D., C.M., F.R.C.S.C., F.A.C.S. Asst. Prof.
Gurd, F. B., B.A., M.D., C.M., F.R.C.S.C., F.A.C.S. Asst. Prof.
MacKenzie, D. W., B.A. Dal., M.D. Corn., F.R.C.S C., F.A.C.S. (Urology) Clin. Prof.
Turner, W. G., M.C., B.A., M.D., M.R.C.S. (Orthop. Surg.) Clin. Prof.
Nutter, J. A., B.A., M.D., C.M., F.R.C.S.C., F.A.C.S. (Orthop. Surg.) Clin. Prof.

Lecturers

Tees, F. J., M.C., B.A., M.D., C.M., F.R.C.S.C., F.A.C.S.
Powell, R. E., B.A., M.D., F.R.C.S. Edin. and Can., F.A.C.S. (Urology).
Patterson, W. J., B.A., M.D., C.M. (Orthop. Surg.).
Williamson, N. T., M.D., C.M., F.R.C S.C. (Orthop. Surg.)
Armour, J. C., M.Sc., M.D., C.M.
Elder, H. M., M.D., C.M.
Fitzgerald, R. R., B.Sc., M.D., C.M., F.R.C.S.
Fleet, G. A., M.Sc., M.D , C.M.
Johnson, G., M.A., M.D., C.M., F.R.C.S. Edin. and Can., F.A.C.S.
Miller, G. G., M.Sc., M.D., C.M., F.R.C.S.C.
Ross, D. E., M.Sc., M.D., C.M.
Wilkie, A. L., B.A. St. F. X., M.D., C.M.
16 Demrs. and Asst. Demrs.

Therapeutics, v. Pharmacol. and Therap.

Dentistry

Crown and Bridge Work

Bushell, W. C., D.D.S., L.D.S. Lectr.
1 Demr.

D. Anæsthesia

Stewart, C. C., M.D. Lectr.

D. Anatomy

MacDermot, H. E., M.D., C.M., F.R.C.P.C. Lectr.

D. Ethics

Blacklock, J. N., D.D.S. Spl. Lectr.

D. History

Laurin, E. M., D.D.S. Spl. Lectr.

D. Jurisprudence

Scott, Prof. F. R., B.A. Ox. & Bishop's, B.Litt. Ox., B.C.L. Prof.

D. Pathol. and Therapeutics

..... Prof.

D. Office Management

Common, J. S., D.D.S. Demr.

D. Radiology

Ritchie, W. L., M.B. Tor., F.R.C.P. C. Lectr.

D. Surgery

Walsh, A. L., D.D.S. Prof

Diet and Nutrition

Rabinowitch, I. M. (also Med. and Path. Chem.) Asst. Prof.

Operative D.

Baxter, F. H. A., D.D.S., L.D.S. Prof.

Mowry, D. P., D.D.S., L.D.S. Assoc. Prof.

Leahy, W. G., B.Sc., D.D.S. Lectr.

7 Demrs.

Oral Surgery

Gerrie, J. W., B.A., D.D.S. Alta., M.D , C.M., D.L.O. Lectr.

2 Demrs.

Orthodontia

McClelland, A. W., D.D.S., L.D.S. Prof.

Franklin, G., D.D.S., L.D.S. Lectr.

1 Demr., 1 Asst. Demr.

Prosthetic D.

Dohan, J. S., D.D.S. Bishop's, L.D.S., F.A.C.D. Prof.

Lowry, I. K., B.A., D.D.S. Lectr.

Bourke, E. T., D.D.S. Sp. Lectr.

Flanagan, J. C., D.D.S. Sp. Lectr.

2 Demrs., 14 Clinical Demrs.

Physical Education, Department of

Lamb, A. S., B.P.E. Springfield, M.D., C.M. Director.

Herriott, Jesse S., B.Sc., M A. Col. Director for Women.

Pedley, F. G., B.A., M.D., C.H.P. J. Hopk., C.M., Dr.P.H. Harv. Univ. Med. Off.

Childs, Mary C., B.A., M.D., C.M. Univ. Med. Off. (Women).

Forbes, D. S., M.C., B.Sc., B.Arch. Athletics Manager.

4 Assts.

Macdonald College

Vice-Principal and Dean of the Fac. of Agric.—W. H. Brittain, M.S.(Agr.), Ph.D. Corn., F.R.S.C.

Agriculture

Agricultural Chemistry [Prof.

McFarlane, W. D., Ph.D. Tor.

De Long, W. A., B.S.A. Tor., Ph.D. Minn., M.Sc. Asst. Prof.

Wrenshall, C. L., Ph.D. Lectr.

1 Demr.

Agricultural Economics

Lattimer, J. E., B.S.A., M.Sc., Ph.D., Wisc., F.R.E.S. Prof.

Agricultural Engineering

Heimpel, L. G., M.S. Corn. Assoc. Prof.

Kalbfleisch, W., B.E. Sask. Lectr.

Agronomy

Summerby, R., M.S.A. Corn. Prof.

Lods, E. A., M.S.A. Asst. Prof.

Raymond, L. C., M.S. Wisc. Asst. Prof.

Bird, J. N., M.A. Tor., M.S.A. Lectr.

Animal Husbandry

Ness, A. R., B.S.A. Prof.

Crampton, E. W., M.S. Iowa, Ph.D. Corn. (Animal Nutrition) Assoc. Prof.

Hamilton, L. H., M.S. Wisc. Asst. Prof.

Animal Pathology

Conklin, R. L., D.V.M. Corn., M.Sc. Prof.

Bain, A. F., B.V.Sc. Tor. Asst. Veterinarian.

Bacteriology

Gray, P. H. H., M.A. Ox., D.Sc. Lond. Assoc. Prof.
Bynoe, E. T., Ph.D. Lectr.

English

Brunt, H. D., B.A. Dal., Ph.D. Jena Assoc. Prof.
Hodgins, S. R. N., B.S.A., M.A. (and Journalism) Asst. Prof.

Entomology

Brittain, W. H., M.S. (Agr.), Ph.D. Corn., F.R.S.C. Dean and Prof.
Du Porte, E. M., B.S.A., Ph.D. Asst. Prof.
Whitehead, W. E., M.Sc. Lectr.
Cameron, J. W. McB., M.Sc. Lectr.

Horticulture

Bunting, T. G., B.S.A. Tor. Prof.
Murray, H. R., B.S.A. Tor., M.Sc. Corn. Asst. Prof.
Hilton, R. J., B.Sc. (Agr.) Lectr.
1 Instructor.

Physics

Rowles, W., M.Sc., Ph.D. Assoc. Prof.
Froman, D. K., M.Sc. Alb., Ph.D. Chic. Asst. Prof.

Plant Pathology [Assoc. Prof.
Coulson, J. G., M.A. Qu.
Crowell, Ivan H., B.Sc. N. Brun., A.M. Miami and Harv., Ph.D. Harv. Lectr.
1 Demr.

Poultry

Maw, W. A., M.S.A. Asst. Prof.
Maw, A. J. G., Ph.D. Wisc. Lectr.

Institute of Parasitology

Cameron, T. W. M., T.D., M.A., D.Sc. Edin., Ph.D. Lond., M.R.C.V.S. Director and Prof.
Conklin, R. L., D.V.M. Corn., M.Sc. (Pathol.) Prof.
Parnell, I. W., B.A. Camb., Ph.D. Edin. Lectr.
Swales, W. E., B.V.Sc. Tor., V.S. Ont., Ph.D. Lectr.

Teachers, School for

Laird, S., M.A., B.Phil., O.I.P. Dean and Prof.
Brunt, H. D., B.A. Dalh., Ph.D. Jena (English) Assoc. Prof.

Lecturers

Lockhart, A. R. B., M.A. Col.
Musgrove, R. B., F.R.C.O. (Music).
Irvine, E. C., M.A., B.Pæd. Tor. (Maths.).
Brownrigg, Novah E., B.A. Qu. (French).
Ramsay, Violet B.
Seiveright, Dorothy J., M.A. Bishop's (Hist. and Geog.).
Elderkin, Evelyn (Art).

Household Science, School of

Philp, Bessie M., Hd. of School.
8 Lectrs., etc.

AFFILIATED INSTITUTIONS

ACADIA, ALBERTA, MT. ALLISON, AND ST. FRANCIS XAVIER UNIVS. Students who have completed the 2-yr. course in Engin. of these Univs. are admitted directly to the 3rd yr. in McGill Engin. courses, except in Chemical Engin., for which special arrangements are at present necessary.

GRADUATES OF THE ROYAL MILITARY COLLEGE, Kingston, are admitted to the 3rd yr. in McGill Engin. courses. Graduates and students of the Mechanical Science course of CAMBRIDGE are admitted to advanced standing in the Faculty of Eng. Particulars obtainable from the Dean of the Faculty.

TRURO AGRICULTURAL COLLEGE. Students who have completed the 2-yr. course of study are admitted to the 3rd yr. in the Faculty of Agriculture at Macdonald College.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I., and MEMORIAL COLLEGE, St. John's, Nfld. Students who have completed the 2-yr. course of study are admitted to the 3rd yr. in the Faculty of Agriculture or the School of Household Science at Macdonald College.

AFFILIATED THEOLOGICAL COLLEGES

DIOCESAN COLLEGE OF MONTREAL. Principal, Rev. G. Abbott-Smith, M.A , D.D., D.C.L.

PRESBYTERIAN COLLEGE, MONTREAL. Principal, F. Scott Mackenzie, M.A., Th.D., D.D.

UNITED THEOLOGICAL COLLEGE, MONTREAL. Principal, Rev. George G. D. Kilpatrick, B.A., D.D.

Students enter after graduation or pursue courses concurrently in Arts at the Univ., in Theol. at the Coll.—6 yrs. in all.

GENERAL INFORMATION

Established in 1821 by Royal Charter. For early history and constitution, see *Yearbook* for 1929. Income from Investments, about $675,000.

LIBRARIES, 385,210 vols. (Medical, 52,000; large Ophth. Dept.) and 40,000 pamphlets; Peter Redpath collection of 10,000 political and religious tracts dating from A.D. 1600; Wood Library of Ornithology; Blackader Library of Archit.; Blacker Library of Zool.; Travelling Library; Osler Library (9000 vols.). LABORATORIES: Chemistry, Physics, Zool., Bot., Physiol., Biochem., Pharmacol., Neurol., Engin., Psych. Research, Pulp and Paper Research, Agric. Research. FARM, Live Stock and Grain, 876 acres. ASTRON. OBSERVATORY. The INSTITUTE OF PARASITOLOGY. MEDICAL MUSEUM (Strathcona), collection of disturbances of heart and vascular system and aneurisms. REDPATH MUSEUM (botanical, geological, and zoological collections). HOSPLS. available for clinics, 2000 beds in Affiliated hospitals.

FACULTIES. Arts and Science, Law, Medicine, Engin. (Archit., and 6 branches of Engin.—Chem., Civil, Elec., Mech., Metall., Mining), Agric., Dentistry, Music, Graduate Studies. The Univ. has also Schools of Commerce, Physical Educn., Nursing, Household Science (in Macdonald Coll.), a Library School, and a School for Teachers.

ADMISSION. School Cert. and British Matricn. Examns. accepted. McGill Matricn. Examn. is held in London in June: particulars obtainable from W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C.4.

DEGREE COURSES. Mus.Bac., 3 yrs.; B.A., B.Com., B.Sc., B.Sc. (Agr.), B.H.S. (Household Sci.), 4 yrs.; B.Arch., B.Eng., B.C.L., 5 yrs.; D.D.S., 6 yrs.; M.D., C.M., 5 yrs. (new regns.); B.L.S. (Library Science), 1 yr., postgraduate.

HIGHER DEGREES. M.A., M.Com., M.C.L., M.Sc., M.Eng.—1 yr. resident graduate study, thesis and examn.; Ph.D.—3 yrs. graduate study; D.Litt., D.Sc.—on recommendation of Board of Grad. Studies; D.C.L.—by valuable contribution to legal science; Mus.Doc.—by a composition and examn. not less than 7 yrs. after taking the Mus.Bac.

DIPLOMAS. Nursing, 1 or 2 yrs.; L.Mus., 3 yrs.; Physical Edn., 3 yrs. Postgraduate—D.P.H., 1 yr., and Teachers (awarded by Province of Quebec), 1 yr.

ATTENDANCE at lectures at the Univ. or Macdonald or Affiliated Coll. is indispensable for a degree or diploma, except in Music.

DIPLOMA COURSE IN AGRICULTURE. The Diploma Course in the Faculty of Agriculture consists of two sessions of five months each (November to March inclusive). This course is intended to provide a general education for boys who intend to farm, and equip them with such a technical knowledge of agriculture as will enable them to deal with the problems arising in connexion with their work. The work is so arranged that students may choose subjects that definitely relate to the type of farming in which they are most interested. A third session, leading to an Advanced Diploma, is also available for students of high standing, emphasis being placed upon the problems of rural leadership.

Closely connected with this extension is the "old country boy" project, under which boys from the British Islands are encouraged to take up this diploma course at Macdonald College so as to fit them for the work of farming, and every effort is made to give them, not only the theoretical education that is needed, but also the practical. Since this plan was put into effect in 1926 about 300 boys, from English public and secondary schools, have been placed on selected farms.

FEES. Yearly tuition, Arts, $215, Sci., $235; Engin., $260; Med., $360 (non-British, $460); Dentistry, $310 (non-British, $350); Law, $235; Commerce, $235; Phys. Edn., $210; Nursing, $160; Library Sci., $160; Agric., residents of Canada, $50; others, $100; Household Sci., residents of Canada, $100; others, $125. M.A., M.Sc., M.Eng., or M.Com. course, $140 (with lab. work, $160), Ph.D. course, each year, $140 ($160 with lab. work); D.Sc., D.Litt., D.C.L., or Mus.Doc., $100.

SCHOLARSHIPS FOR GRADUATES. In Econ. and Polit. Sc., Guy Drummond Memorial Scholarship, Income from $45,190 endowment; Allen Oliver, $400; Alexander Mackenzie, $600; Chem., Sterry Hunt, $600; Geol., Le Roy, $460; Mining Research and Teaching Fellowships, 1 of $600, 1 of $550; Med. Research, especially Obstetrics and Gynæc., A. A. Browne Endowment, $10,000 endowment open to grads. of any recognized Med. school; Path. Research, J. Douglas Endowment, $25,000; Experimental Surg. Research, John McCrae Fellowship, $800; Research in Obst. and Gynæcol., Clara Law Fellowship, $1200; J. Francis William Fellowship in Med., $500; "Delta Upsilon," $700; The Moyse *Travelling Scholarships*, 2 of $1250 each; Law, Macdonald Endowment, $24,335; Hugh McLennan Travelling Scholarship in Archit., $1000.

RESIDENCE. Women: Roy. Vict. Coll., accommodation for 110 students; men: Douglas Hall, accommodation for 125 students; Strathcona Hall (Y.M.C.A.), accommodation for 60. Board and residence in Roy. Vict. Coll., $450 per session; board and residence in Douglas Hall, for students in Arts and Sci., Engin. and Law, $360 per session, for students in 4th and 5th years Medicine and 3rd and 4th years Dentistry, $380, for students in first 3 yrs. of Medicine and first 2 yrs. of Dentistry, $420; approved lodgings, $35 per month and upwards; rooms only, $12 per month and upwards; board, $25 and upwards.

McGill Union dining-room, accommodating 120 students at a time, provides inexpensive meals.

STUDENT HEALTH. Medical examination and re-examination is compulsory

for all students, and the Univ., through its Dept. of Physical Education and Univ. Medical Officer, runs consulting service for benefit of students. Univ. also makes some contribution towards expenses of students who are compelled to go to hospital.

ATHLETICS. Opportunities are provided for taking part in following sports: *For men*: Canadian and English Rugby Football, Association Football, Ice-Hockey, Basketball, Track, Swimming, Gymnastics, Boxing, Wrestling, Fencing, Skiing, Tennis. *For women*: Gymnastics, Dancing, Badminton, Swimming, Volleyball, Basketball, Baseball, Tennis, Archery, Golf.

MILITARY TRAINING. Univ. Contingent of Canadian Officers Training Corps prepares candidates for regular Certificate and Certificate B of War Office.

EXTENSION WORK. Extension courses in a variety of subjects are given in the afternoon and evenings for residents of Montreal and vicinity. Some prepare students for special examns., such as are required by the various Accountancy Associations (leading to diplomas of L.A., C.A., C.P.A., etc.), and the Inter. and Final examns. of the Chartered Inst. of Secretaries. Rural extension work is carried on under the Fac. of Agriculture.

PUBLICATIONS. *Calendar* (August); *General Announcement* (for intending students) (April); *Coll. Announcements* (May to July); *Annual Report* (Dec.); *McGill News*, quarterly, by Graduates' Soc.; *McGill Daily*, by students; *Lectures and Addresses*; Catalogue of Scientific Periodicals in Canadian Libraries, 1924, $5; *McGill and its Story*, 1821–1921, by Cyrus Macmillan (London, John Lane; New York, John Lane & Co.; Toronto, Oxford Univ. Press, $3); *A Historical Sketch of the Medical Faculty and of the Origin of McGill University*, by Dr. Maude Abbott.

THE YEAR 1937–38

BENEFACTIONS. American Otological Society, $1000 to assist in work in Otosclerosis and $2000 for investigations on hearing; Anonymous, $1700 to provide residential bursaries in Douglas Hall; Anonymous, $5000 to Archibald Cancer Research Fund; Anonymous, $3000 for research in Endocrinology in Univ. Medical Clinic; Anonymous, $50,000 for general purposes; Anonymous, $750 for extension and maintenance of Pædiatrics section of Medical Library; A. F. Baillie, $500 to Baillie Memorial Library in Chemistry; Sir Edward Beatty, $1200 for Scholps. in Maths. and Classics; W. A. Black, $1000 to Archibald Cancer Research Fund; Mr. and Mrs. R. R. Blacker, $500 for Blacker Library of Zoology; Bronfman Family, $12,500 to general funds; Canadian Pulp and Paper Association, $3500 annual grant for support of Dept. of Industrial and Cellulose Chemistry and $1500 for graduate scholps. in Physical Chemistry; Carnegie Corporation, $5000 for extension work in rural adult education, $4500 for research work in Cellulose Chemistry and $12,000 for Library School; Harold Crabtree and Professor H. Hibbert, each $3500 for scholps. in postdoctoral work and apparatus and supplies for investigation into scientific and industrial aspects of bleaching of kraft paper; Children's Memorial Hospital, $500 to Dept. of Bacteriology; Dow Chemical Co., $1000 for fellowship in Chemistry; Mrs. Arthur Drummond, $750, Lady Drummond, $500, and Huntley Drummond, $1000, to Archibald Cancer Research Fund; G. H. Duggan, $500 to Archibald Cancer Research Fund, and $500 to Neurophysiological Fund; estate, Mrs. F. M. Finch, $20,000 to general funds; Mrs. J. R. Fraser, $1200 for Clara Law Fellowship in Obstetrics and Gynæcology; Mrs. A. A. Hodgson, $2000 to Neurophysiological Fund; Sir Herbert Holt,

$12,000 to general funds; Mrs. C. A. Hodgson, $1000 to Archibald Cancer Research Fund; Miss Olive Hosmer, $1000 for Experimental Medicine, $2000 for research in Bacteriology, and $2500 to Archibald Cancer Research Fund; Mr. and Mrs. Hayward Linton, $1000 to Archibald Cancer Research Fund; the late Lieut.-Col. Herbert Molson, $250,000 to Endowment Fund; J. W. McConnell, $3000 to Neurophysiology Research Fund, $1000 to Archibald Cancer Research Fund, and $12,500 to general funds; McGill Graduates Society, a group of graduates, $2476.20, to establish "Nevil Norton Evans Scholarship in Chemistry"; Miss Isabella C. McLennan, $1000 to general funds; Mrs. Henry Munderloh, $1000 to Archibald Cancer Research Fund; City of Montreal, $15,000 to Montreal Neurological Institute and $10,000 to general funds; National Breweries, Limited, $850 to Macdonald College for barley research; National Research Council, $2000 for research in dextran by Professor Hibbert; Province of Quebec, $25,000 to Dept. of Education, $25,000 for general funds, $7000 to School of Commerce, $30,000 to Fac. of Agriculture, $2200 to Macdonald Coll. High School; James B. Redpath, $500, and John R. Redpath, $1000, to P. W. & J. C. Redpath Memorial Fund; Mrs. Lewis Reford, $2000 to Neurophysiology Research Fund; Rockefeller Foundation, $50,000 to Dept. of Neurology and Neurosurgery and $3000 in aid of neuropsychology; Siscoe Gold Mines, $1200 for scholps. in Engineering; Spruce Falls Power and Paper Company, $750 for research fellowships in Industrial and Cellulose Chemistry; Mrs. Walter M. Stewart, $1383.29 to complete alterations and furnishings of student common room at Macdonald Coll.; Mr. and Mrs. Walter M. Stewart, $1000 to Library, $1000 to Students' Athletic Association and $500 to Founder's Day Celebration at Macdonald Coll.; estate, late Dr. J. Francis Williams, $500 for a scholp. in Medicine; Dr. Casey A. Wood and Miss Elizabeth Howe, $1350 for special work for Wood Library of Ornithology; John Wyeth and Brother, $1200 to Dept. of Experimental Medicine.

NEW BUILDINGS. University has approved plans for Cyclotron Laboratory and Sir Arthur Currie Memorial Gymnasium. Cost of the latter is being largely met by graduates of Univ.

VISITORS. His Excellency the Governor-General of Canada, Visitor; Mr. Justice Rupchand Bilaron, India; El Marques don Carlos de Pedroso, who visited the McGill Spanish Club and the Department of Spanish; Dr. W. Melville Arnott, Edinburgh; Dr. Girdwood and Professor Brebner, Johannesburg; Professor Richard Bauer, Vienna; Dr. Gessler, Louvain, Colonel Hopson Owen Murfee, Alabama, Professor V. E. Negus, London, Dr. Leonard Colebrook, London, Dr. Robert S. Breed, New York, Professor Hans Zinsser, Harvard Univ., Professor G. B. Reed, Queen's Univ., Dr. Victor Heiser, Philippines, Professor Louis Martin, Paris, Dr. A. C. Kirkpatrick, Johannesburg, Dr. Alan Gregg, Rockefeller Foundation, New York, Major Hutchinson, Colonial Service, Dr. A. Stampar, League of Nations, Geneva, and Dr. Michael M. Davis, Committee on Research in Medical Economics, New York, all of whom visited depts. in Fac. of Medicine; Professor Shand of Columbia Univ., Professor Allan of Univ. of Alberta, Professor Williams of Univ. of British Columbia, Professor Douglas of Dalhousie Univ., Professor Bancroft of Acadia Univ. and Dr. J. Austen Bancroft of Johannesburg, who visited Dept. of Geological Sciences; Dr. W. J. D. White of Columbia Univ., Dr. B.-R. Nebel of Geneva, N.Y., Dr. R. M. Love of Ottawa, Dr. A. W. S. Hunter of Ottawa, and Dr. E. M. Creech, Toronto, who visited the Dept. of Genetics, and Dr. Arthur A. Allen, Cornell Univ., Dr. David Potter, Cornell Univ., Commander Donald B. MacMillan, Provincetown, Mass., and Dr. D. H. F. Lewis of Ottawa, who visited the Dept. of Zoology.

VISITING LECTURERS. El Marques don Carlos de Pedroso, "The Present Spanish Conflict." Ivor Jennings, London, "Recent Trends in English Constitutional Development." The Rt. Rev. Bishop Philip Lindel Tsen, Bishop of Honan, China, "China and World Peace." Professor Manley O. Hudson, Harvard Law School, and a Judge of the Permanent Court of International Justice, "The Working of the World Court." Dr. R. Meldrum Stewart, Director of Dominion Observatory, "International Cooperation in Astronomical Research." Dr. J. F. Heard, David Dunlap Observatory, Toronto, "Observations and Research Problems at the David Dunlap Observatory." Dr. Karl K. Darrow, Bell Telephone Laboratories, New York, "Neutrons: Comments on Nuclear Theory." Dr. R. L. Thornton, Univ. of Michigan, "Nuclear Physics at the University of Michigan" and "Radioactivity, artificial and natural." Professor Hugh S. Taylor, Princeton Univ., "The Structure of Liquids" and "Holes in Liquids and their Consequences." Professor Maurice Sourdille, Nantes, "A New Technique for the Surgical Treatment of Progressive Deafness of Otosclerosis." Dr. Frank L. Horsfall, Jr., Harvard Univ., "A Clinic on Rabbit Antipneumococcus Serum." Professor Chassar Moir, Oxford, "The Newer Forms of Ergot." Professor Daniel Dougal, Manchester, "The Manchester Operation for the Repair of Procedentia Uteri." Professor Detlet Bronk, Univ. of Pennsylvania, "Nerve Cells and Synapses in the Regulation of Organic Functions," Annual Hughlings Jackson Memorial Lecture. Dr. E. Miles Atkinson, Bellevue Hospital, N.Y., "Otogeneous cerebella abscess." Dr. Percival Bailey, Univ. of Chicago, "The Role of the Schwann Cells in the Formation of Tumours of the Peripheral Nerves." Dr. Ray Farquharson, Univ. of Toronto, "Pernicious Anæmia and Subacute Combined Degeneration of the Spinal Cord." Dr. John Fulton, Yale Univ., "Cerebral Regulation of Automatic Functions." Dr. Herbert Jasper, Brown Univ., "Electrical Signs of Brain Disorder." Dr. William Lennox, Harvard Univ., "New Light on the Old Problem of Epilepsy." Dr. L. C. Simard, Univ. of Montreal, "The Neuro-Insular contacts of the Pancreas Neurocrinia and Paraganglionic Function." Dr. David C. Potter, Clark Univ., "The MacMillan Expedition." Dr. Arthur A. Allen, Cornell Univ., "Hunting with a Microphone." Mr. Hazard, Univ. of Chicago, "Some Aspects of Soviet Law." Miss Kathleen Long, pianist, Felix Salmond, violoncellist, Charles Naegele, pianist, Percy Grainger, pianist composer, and Beveridge Webster, pianist, lectured before the Fac. of Music. Frère Antoine Bernard, Univ. of Montreal, and Alphonse Primeau-Robert, Montreal, lectured in French before the students in the School for Teachers.

RETIREMENTS. Professors: A. T. Bazin (Med.), H. B. Cushing (Med.), E. M. Eberts (Med.), H. Oertel (Med.); Assoc. Professor: W. L. Barlow (Med.); Lecturers: Walter M. Fisk (Med.), F. W. Harvey (Med. and University Medical Officer), W. B. Howell (Med.), A. G. McAuley (Med.).

RESIGNATIONS. Assoc. Professor: G. E. Lemaitre (Arts), on appt. as Assoc. Prof. of French, Stanford Univ.; Asst. Professors: E. C. Hughes (Arts), on appt. as Asst. Prof. of Sociology, Univ. of Chicago; H. E. Rawlinson (Med.), on appt. as Assoc. Prof. of Anatomy, Univ. of Alberta; Lecturers: D. J. Bowie (Med.), on appt. as Asst. Prof. of Histology, Univ. of Manitoba; H. J. Brodie (Agric.), on appt. as Profs. of Botany, Univ. of Manitoba; A. D. P. Heeney (Law), on appt. as Sec. to Prime Minister of Canada; Agnes Melgaard (School for Teachers); Dorothea Mellor (Univ. Medical Officer for Women).

DEATHS. Rt. Hon. Lord Atholstan, Governor; Lieut.-Colonel Herbert Molson, Governor; Prof. H. B. Fantham (Arts); Dr. W. H. Chase (Pathology).

HONORARY DEGREES. *LL.D.*—Mabel Frances Hersey, O.B.E., Retiring

Superintendent of Nurses, Royal Victoria Hospital, Montreal; Rt. Hon. Ernest Lapointe, P.C., K.C., B.A., LL.B., Minister of Justice for Canada; William Allan Neilson, M.A., Ph.D., LL.D., L.H.D., Litt.D., President of Smith College, Northampton, Mass., U.S.A.; Harry Joshua Stern, B.A., B.H.L., Rabbi of Temple Emanu-El, Montreal; Robert Charles Wallace, M.A., D.Sc., Ph.D., LL.D., Principal, Queen's University, Kingston, Ont.

STUDENTS. Full-time: 2955, including 231 graduates. Part-time: 355.

DEGREES. B.A., 142; M.A., 24; B.C.L., 10; B.Sc., 36; M.Sc., 31; B.Sc. (Agr.), 27; B.Arch., 5; B.Eng., 74; M.D., C.M., 97; D.D.S., 21; B.Com., 31; B.L.S., 21; B.H.S., 23; Ph.D., 26.

DIPLOMAS. Graduate Nurses, 17; Physical Education, 13; Music (L. Mus.), 4.

McMASTER UNIVERSITY, HAMILTON, ONT.

Founded 1887

CHANCELLOR AND PRINCIPAL—HOWARD P. WHIDDEN, B.A. Acadia, D.D. Denison, LL.D. McM., West., Qu., Tor., D.C.L. Acadia and Hillsdale, B.Th., F.R.S.C.

REGISTRAR—E. J. BENGOUGH, B.A.

BURSAR—G. M. HENRY, M.A.

LIBRARIAN—H. C. GOURLAY, B.A. Qu., M.A.L.S. Mich.

TEACHING STAFF

Biology

Gaiser, Lulu O., B.A. W. Ont., M.A., Ph.D. Columb. Prof.
Warren, A. E., B.A. Acadia, Ph.D. Harv. Asst. Prof.
Snure, Pauline, Ph.D. Wisc., M.A. Sp. Lectr.

Chemistry

Burke, C. E., Ph.D. Ill., M.A. Assoc. Dean (Sci.) Prof.
Walker, W. O., M.A. Tor. Prof.
Morton, J. M., M.Sc. Dal., M.A., Ph.D. Princ. (also Physics) Sp. Lectr.

English

McLay, W. S. W., B.A. Tor., M.A. Harv., D.Litt. Ac., LL.D. Qu., Dean, Fac. of Arts Prof.
Haddow, G. C., M.A. Ox. and Tor. Assoc. Prof.
Wiles, R. McK., B.A. Dal., M.A., Ph.D. Harv. Asst. Prof.
Roberts, Marguerita, B.A. Evansville, M.A. Radcliffe Asst. Prof.

Classics

Stearn, C. H., M.A. Camb., B.D. Lond. Prof.
Salmon, E. T., B.A. Syd., M.A., Ph.D. Camb. Assoc. Prof.

Fine Arts [Assoc. Prof.

Hart, S., M.A. Columb.

French

Haden, E. F., B.A. S. Western Presby. Univ., Ph.D. Chic. Prof.
Freeman, H. A., B.A. Sask., M.A. Tor. Asst. Prof.
Creighton, Edith M., B.A. Dal. Lectr.

Geology

McNairn, W. H., M.A., Ph.D. Tor. Prof.

German

Mueller, P. W., B.A. Tor., M.A. Prof.
Tapscott, H. B., M.A. Sp. Lectr.

History

New, C. W., B.A. Tor., Ph.D. Chic., B.Th., B.D. Prof.
Macdonald, N., B.A. Qu., A.M., Ph.D., Harv. Assoc. Prof.
Aiken, W. A., B.A., Yale, M.Litt. Camb. Sp. Lectr.

Mathematics [Prof.

Findlay, W., M.A., Ph.D. Chic.
Johns, A. E., M.A., Ph.D. Tor. Assoc. Prof.

Music [Sp. Lectr.
Godfrey, G., Mus.Doc. Tor.

Philosophy, Psychology, and Ethics
Bensen, R. C., B.D., Ph.D. Chic., M.A., B.Th. Prof.
Waters, F. W., B.A., B.D. Asst. Prof.

Physics
Dawes, H. F., M.A., Ph.D. Tor., F.R.S.C. Prof.
McLay, A. B., M.A., Ph.D. Tor. Assoc. Prof.
Morton, J. M. (v. Chem.) Sp. Lectr.

Political Economy [Prof.
Michell, H., B.A. Ox., M.A. Manit.
Taylor, K. W., M.A. Chic., B.A. Assoc. Dean, Arts, Prof.
Hurd, W. B., B.A. Manit., M.A. Ox. Prof.

Public Reading and Speaking
Kirkpatrick, F. H., Ph.B. Hiram, Ph.D. Central Univ. Sp. Lectr.

Sociology
Hart, C. W. M., M.A.

Theology

Christian Theology and Philosophy of Religion
McCracken, R. J., M.A., B.D. Glasgow Prof.

Church History
Gilmour, G. P., M.A. Yale, B.A., B.Th. Prof.

Hebrew and Old Testament Interpretation
Parker, N. H., B.Sc. Mississippi, Th.D. Southern Bapt. Seminary Prof.

Missions and Evangelism
..... Prof.

New Test. Interpretation
MacNeill, H. L., B.A., Ph.D. Chic., LL.D. Prof.

Practical Theology
Stewart, H. S., B.A. Rochester, D.D. Harv. Dean, Theol., Prof.

Religious Education
..... Sp. Lectr.

Physical Education
Burridge, A. A., B.A. Director.

GENERAL INFORMATION

In 1887 Toronto Baptist College and Woodstock College, Woodstock, were united under the name of McMaster University, and their already existing endowments were increased by $900,000, received under the will of the Hon. Wm. McMaster. The Board of Governors (16) are elected by the Baptist Convention of Ontario and Quebec. There is no religious test for entrance, but the Profs. and Lectrs. must be members of some evangelical church. Moulton Ladies' Coll., Toronto (founded in 1888), is represented on the Senate.

LIBRARY, 40,000 vols. LABORATORIES: Phys., Biol., Chem., Mineral.

DEGREE COURSES. 4 or 5 yrs., B.A., B.Sc. The first 2 yrs. in Arts do not necessarily involve attendance at lectures.

The B.A. degree is recognized by the Univ. of London.

HIGHER DEGREES. M.A., 1 yr. course after B.A.; B.D., 3 yrs.' course after B.A.; B.Th. is no longer awarded.

DIPLOMA. English Theol., 3 yrs.' course.

CERTIFICATE. Missionary Training for women.

EXTENSION WORK. Extension work is carried on by means of evening classes in the Univ. buildings and in other centres in the Niagara Peninsula, also by a six weeks' summer session in the Univ. The courses are followed by Public School teachers who wish to improve their academic rating, or who wish to proceed to the B.A. degree. During the winter of 1937–38, 367 students enrolled for extension classes. Two hundred and thirty of them were in attendance at the Univ., and the remainder in classes at four outside centres, or working extra-murally. During the summer of 1938 there were 133 students in attendance. Eight or ten students graduate each year from the Extension Department.

ADULT EDUCATION. The Fine Arts Department provides weekly lectures in Art Appreciation. In 1937–38 such lectures were given to 400 persons in Hamilton, as well as to some 650 persons in other centres. Art exhibitions are secured from time to time both by Hamilton and the local centres. Courses of popular lectures are given by the professors under various auspices. The Mountain Sanatorium is connected with the Univ. by wire, and series of lectures are given each session to the patients there, the professors speaking at a microphone in the Univ., and the patients listening through their head-phones. Concerts and other events are similarly broadcast to the Sanatorium. Study groups of current events and similar topics are conducted in Hamilton and elsewhere.

PHYSICAL TRAINING. Physical Training for 2 hrs. each week is compulsory for all students in the first and second yrs. The time may be devoted to games under the direction of the Dept. of Physical Education, or may be gymnasium work. An effort is made to have as many students as possible engage in games, provision being made for about 30 varieties.

MEDICAL EXAMINATION. An annual medical examination is compulsory for all students, and corrective exercises are provided where necessary.

FEES. Annually, for tuition—Arts, $115, Theol., $25; Registration, $5; Library and examn., $10. For student organizations, athletics, etc., men, $17, women, $13.50.

RESIDENCE. Board and room per session: men in Edwards Hall, $266; women in Wallingford Hall, $278.

PUBLICATIONS. *Calendar* (June); *McMaster Monthly* (students' magazine); *McMaster Silhouette* (students' weekly paper); *Marmor* (students' annual); *McMaster News* (pub. by Alumni Assn.), seven times a year.

THE YEAR 1937–38

RESIGNATION. J. R. Baldwin (Hist.), on appt. as Secretary, Canadian Institute of International Affairs.

HONORARY DEGREES. *D.Litt.*—Baron Tweedsmuir of Elsfield, Governor-General of Canada. *LL.D.*—Sir Josiah Stamp, London, England; Samuel Paul Capen, Chancellor, Univ. of Buffalo, Buffalo, New York. *D.D.*—Jesse Edmund Chute, retired missionary, Baptist Foreign Missions, Toronto, Ontario.

STUDENTS. Full-time: 526. Part-time: 80, including 8 graduates. Extension students, 397 (Evening Courses, Summer School).

DEGREES. B.D., 7; B.Th., 1; B.A., 151, also 30 at Brandon; M.A., 4; Eng. Theol. Diploma, 1.

THE UNIVERSITY OF MANITOBA, WINNIPEG

Founded 1877

CHAIRMAN OF THE BOARD OF GOVERNORS—The Hon. A. K. DYSART, M.A., LL.D.

CHANCELLOR—JOHN W. DAFOE, LL.D.

VICE-CHANCELLOR AND PRESIDENT—SIDNEY E. SMITH, M.A. King's, LL.B. Dal., LL.D. Qu., D.C.L. Acadia.

REGISTRAR—W. J. SPENCE, B.A., LL.D.

ASSISTANT REGISTRAR—W. B. H. TEAKLES, B.A.

COMPTROLLER AND SECRETARY OF BOARD OF GOVERNORS—F. W. CRAWFORD.

LIBRARIAN—ELIZABETH DAFOE, B.A.

DEAN OF WOMEN—URSILLA N. MACDONNELL, M.A., Ph.D.

TEACHING STAFF

Actuarial Science

Warren, Ll. A. H., M.A. Qu., Ph.D. Chic., F.R.A.S. Prof.

Agriculture, v. *infra*

Anatomy, v. also Med.-Surg.

Thompson, I. M., B.Sc., M.B., Ch.B. Edin. Hd. of Dept., Prof.

Bowie, D. J., B.Sc.(Med.), M.A., Ph.D. Tor. Asst. Prof.

Sigurdson, L. A., M.A., M.D. Lectr.

Wheeler, D., M.A., M.D., C.M., M.R.C.S., L.R.C.P. (X-Ray) Lectr.

Gibson, A., M.B., Ch.B. Edin., F.R.C.S., F.A.C.S. (v. Surgery) (Applied Anat.) Lectr.

5 Demrs.

Architecture

Osborne, M. S., B.Arch. Col. and Ohio, M.Sc. (Arch.) Col. (v. also Edn.) Prof.

Russell, J. A., B.Arch. Mass. Inst. Tech. Assoc. Prof.

1 Student Asst.

Astronomy, v. Maths.

Biochemistry

Cameron, A. T., M.A., D.Sc. Edin., F.I.C., F.R.S.C. Prof.

White, F. D., Ph.D. Edin., F.I.C. Asst. Prof.

1 Demr.

Botany

Leach, W., M.Sc., Ph.D. Manc., D.Sc. Birm. Prof.

Lowe, C. W., M.Sc. Birm. Assoc. Prof.

Brodie, H. J., Ph.D. Mich., M.Sc. Asst. Prof.

3 Demrs.

Chemistry

Armes, H. P., B.Sc. Leeds, Ph.D. Stras. Prof.

Campbell, A. N., D.Sc. Aberd., M.Sc., Ph.D. Lond., F.I.C. Assoc. Prof.

Hiebert, P. G., M.A. Tor., M.Sc., Ph.D. McG. Asst. Prof.

Robinson, A. D., B.A. Sask., M.A., Ph.D. Minn. Asst. Prof.

Saunderson, H. H., Ph.D. McG., B.A., M.Sc. Asst. Prof.
Charlesworth, E. H., M.A. Qu., D.Phil. Ox. Lectr.
25 Student Demrs.

Classics [Prof.
Clark, F. W., Ph D. Chic., B.A.
Hugill, W. M., B.A. Tor., Ph.D. Chic. (v. also Edn.) Asst. Prof.
Johnson, Skuli, M.A. Asst. Prof.

Commerce
MacDonald, J. M., B.A. St. F. X., M.B.A. Harv. Prof.
Johnson, F., C.A. (Accounting) Lectr.

Education
Woods, D. S., B.A. Qu., Ph.D. Chic., M.A. Dean of Fac., Prof.
Low, H. R., M.A., B.Sc., Ed.B. Glas. Asst. Prof.
Brooker, Miss M., M.A. Glas. Lectr.
Jarman, R. (Phys. Ed.) Lectr.
Fletcher, R., B.A., LL.D. Lectr.
Osborne, Prof. M. S. (v. Archit.) (Art Appreciation) Lectr.
Hugill, W. M. (v. Classics) Lectr.
Argue, R. F. (v. English) Lectr.
Saunders, Doris B. (v. English) Lectr.
6 Instrs.

Engineering, Civil [Prof.
Macdonald, A. E., M.Sc. McG.
Herriot, G. H., B.Sc. Qu., D.L.S., M.E.I.C. Prof.
Moffatt, R. W., B.A.Sc. Tor. Assoc. Prof.
Riddell, W. F., M.Sc. Asst. Prof.
Scott, W. M., B.A.Sc. McG., M.E.I.C. Special Lectr.
Hoogstraten, J., B.Sc.(C.E.) Lectr.
2 Demrs.

Engineering, Electrical
Fetherstonhaugh, E.P., M.C., B.Sc. McG., M.E.I.C., Dean of Fac. Prof.
Dorsey, J. W., E.E. Lehigh Assoc. Prof.
1 Demr.

Engineering, Mechanical
Hall, N. M., O.B.E., B.Sc. McG., M.E.I.C. Prof.

English
Daniells, R., B.A. Br. Col., M.A., Ph.D. Tor. Prof.
Perry, A. J., M.A. Acad. and Yale, D.Litt. Acadia Prof.
Allison, W. T., M.A. Tor., Ph.D. Yale Prof.

Asst. Professors
Hopper, C. R., M.A.
Argue, R. F., M.A. (v. also Edn.).
Wheeler, A. Ll., B.A. Br. Col., M.A. Tor., Ph.D. Wisc.
Saunders, Doris B., M.A., B.Litt. Ox. (v. also Edn.) Lectr.
3 Readers

French [Prof.
Osborne, W. F., M.A. Tor., O.A.
Jones, C. Meredith, M.A. Wales, D. de l'U. Paris Asst. Prof.
Ballu, Céline A., M.A. Wisc. Lectr.
Richard, M. E. J., B.A. Alta. Lectr.

Geology and Mineralogy
De Lury, J. S., B.A. Tor., Ph.D. Minn., F.R.S.C. Prof.
Brownell, G. McL., M.Sc. Man., Ph.D. Minn. Asst. Prof.
Leith, E. I., M.Sc. Lectr.
5 Student Assts.

German
Heinzelmann, J. H., B.A. Ill., Ph.D. Chic. Prof.
Burzle, A., Ph.D. Munich Asst. Prof.
1 Asst.

History
Fieldhouse, H. N., M.A. Ox. and Sheff. Prof.
Howe, J. E., B.A. Yale, M.A. Acad. Asst. Prof.

Macfarlane, R. O., M.A. Qu., A.M., Ph.D. Harv. Asst. Prof.

Law, v. *infra*—Affiliated Colleges

Mathematics and Astronomy

Wilson, N. R., M.A. Tor., Ph.D. Chic., F.R.S.C. Prof.
Tier, W., M.A. Tor., LL.D., Dean of Fac. of Arts Prof.
Milne, T. H., M.A. Tor. Asst. Prof.
Lawson, J. W., M.A. Asst. Prof.
Goulden, C. H., M.S.A. Sask., Ph.D. Minn. Hon. Lectr.
Mark, Carson, B.A., West. Ont., M.A. Tor. Lectr.
Campbell, W. C., B.A. Asst.

Medicine, v. *infra*

Music

Clare, Eva Director.

Pharmacy [Prof.

Bletcher, H. E., B.Sc., F.C.I.C.
McDougall, D., M.Sc., F.C.I.C. Asst. Prof.
Cochrane, G. R., B.Sc., B.Sc. (Phar.) Asst.

Philosophy and Psychol.

Wright, H. W., B.A., Ph.D. Corn. (Psychol. and Social Ethics.) Prof.
Lodge, R. C., M.A. Ox. (Logic and Hist. of Philos.) (v. also Edn.) Prof.
1 Student Asst.

Physics

Allen, Frank, M.A. N. Bruns. and Corn., Ph.D. Corn., LL.D., F.R.S.C. Prof.
McClung, R. K., B.A. Camb., M.A., D.Sc. McG., F.R.S.C. Prof.
Young, J. F. T., M.A., Ph.D. Tor. Assoc. Prof.
Anderson, W. A., M.A. Chic., M.Sc. Asst. Prof.
Macdonald, P. A., M.Sc., Ph.D. Asst. Prof.
Batho, H. F., B.A. McM., M.Sc., Ph.D. Chic. Asst. Prof.
11 Demrs.

Physiology, v. Medicine

Political Economy

McQueen, R., M.A. Alb. Prof.
Grant, H. C., Ph.D. Stan., B.S.A., M A. Assoc. Prof.
Clokie, H. McD., B.A. Sask. M A. Ox. (Pol. Science) Assoc. Prof.
Waines, W. J., M.A. Asst. Prof.

Zoology

Wardle, R. A., M.Sc. Manc. Prof.
Jackson, V. W., B.A. Qu., M.S. Minn. Asst. Prof.
MacLeod, J. A., M.Sc. Lectr.
9 Demrs.

Agriculture and Home Economics

Agricultural Engineering

Shanks, G. L., M.S. Iowa State Coll., B.S.A. Assoc. Prof.

Animal Husbandry

Wood, G. W., B.S.A. McG., M.S. Wisc. Prof.
Brown, J. McC., B.S.A. Tor., M.S. Minn. Assoc. Prof.
Cavers, J. R., B.S.A. Tor., M.S. Minn. (Poultry H.) Asst. Prof.

Bacteriology and Animal Pathology

Savage, Alfred, B.S.A. McG., D.V.M. Corn., M.R.C.V.S. Prof.
James, N., B.S.A. Tor., M.S. Iowa (Bact.) Assoc. Prof.
Jamieson, M. C., B.S.A. Tor. (Bact.) Lectr.

Clothing and Textiles [Lectr.

Groff, Clara Louise, B.S. Col.
McFadden, Eleanor G., B.S. Iowa Lectr.
Ferguson, Ruth H., M.S. Iowa State, B.Sc. (H.Ec.) (also Household Art) Lectr.

Dairy Husbandry

Brown, R. W., B.S.A. Tor., M.S. Iowa Prof.

Entomology

Mitchener, A. V., B.A. McM., B.S.A. Tor., M.Sc. Dean and Prof.

Richmond, H. A., B.Sc. Oregon State College, M.Sc. McG. (Forest Entomol.) Hon. Lectr.

2 Student Assts.

Home Economics

Hood, Grace G., B.Sc., M.A. Col., Ph.D. Minn. Director.

Moxon, Mary C., Ph.B. Chic., M.A. Lectr.

1 Student Asst.

Household Art

Allen, Lillian B., B.A. Lectr.

Ferguson, Ruth H. (also Clothing, etc.) Lectr.

Nutrition

Hiltz, Mary C., B.S. Col., M.A. Tor. Asst. Prof.

McLauchlin, Florence E. M., M.S. Iowa, B.Sc. (H.Ec.) Lectr.

McMillan, A. May, B.Sc. Mt. All., M.A. Col. Lectr.

Plant Science

Olson, P. J., B.S. N. Dak., M.Sc. Ill., Ph.D. Nebr. Prof.

Walker, J. R., B.Sc. Alb., M.S. Minn. (Hortic.) Asst. Prof.

1 Student Asst.

Soils

Ellis, J. H., M.S. Minn., B.S.A. Prof.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology and Serology

Cadham, F. T., B.A., M.D., F.R.C.P.C. Prof.

2 Demrs.

Dentistry

Merkeley, H. J., M.D.S. Tor. Lectr.

Forensic Medicine, Toxicology and Medical Ethics

Speechly, H. M., M.R.C.S., L.R.C.P. Lectr.

Laryngology and Otology

Washington, E. J., M.D., F.R.C.S.C. Prof.

Leishman, A. G. V., M.D., F.A.C.S., F.R.C.S.C. (Clin.) Assoc. Prof.

2 Demrs.

Medicine and Clinical Medicine

Gilmour, C. R., M.D., C.M. McG., F.R.C.P.C. Prof.

Assoc. Profs. of Medicine

Mathers, A. T., M.D., C.M., F.R.C.P.C. (Psychiatry), Dean of Fac.

Adamson, J. D., B.A., M.D., M.R.C.P.E., F.R.C.P.C.

Asst. Profs. of Medicine

Chown, G., O.B.E., B.A., M.D., C.M. Qu., F.R.C.P.C. (Pædiatrics).

Warner, N. W., M.D., F.R.C.P.C.

Lectrs. in Medicine

Bell, L. G., M.D., M.R.C.P.

Brodie, J., M.B., B.S. Lond., L.R.C.P., M.R.C.S.

McIntyre, Dougald, M.D.

McMillan, J. C., M.D., F.A.C.P., F.R.C.P.C. (Rœntgenol. and Electro-therapy).

Davidson, A. M., M.B., Ch.B. Edin., M.D. (Dermatol.).

Walker, S. B., L.R.C.P. Lond., M.R.C.S. Eng.

Chown, H. B., M.C., B.A., M.D. (Pædiatrics).

Day, O. J., M.D. Tor. (Pædiatrics).

Hossack, J. C., M.D., C.M.

Kitchen, H. D., M.M., M.D., C.M.

Hollenberg, A., B.A., B.Sc., M.D.

McEachern, J. M., M.D. Tor., F.R.C.P.C.

Musgrove, W. M., M.D.

Bedford, G. V., M.D.
Mathewson, F. A. L., M.D., B.Sc.(Med.).
Medovy, H., M.D.
Rodin, S., M.D.
Walton, C. H. A., M.Sc., M.D.
10 Demrs.

Obstetrics and Gynæcology

MacKay, D. S., O.B.E., M.D., C.M. McG., F.R.C.S. Edin., F.R.C.S.C., F.C.O.G. (Gynæcol.) Prof.
McQueen, J. D., D.S.O., M.D., C.M., F.A.C.S., F.R.C.S.C. Assoc. Prof.
Mitchell, R. B., B.A., M.D., C.M., F.A.C.S., F.R.C.P.C. (Obstet.) Assoc. Prof.
McGuinness, F. G., M.D., C.M., F.R.C.S.C. (Obstet.) Asst. Prof.
Black, Elinor, M.D. Lectr.

Lectrs. in Gynæcology

Rice, C. R., M.D., C.M.
MacCharles, C. W., M.D.
Abbott, W. F., M.C., B.A., M.D., C.M.

Lectrs. in Obstetrics

Blondal, A., M.D.
Arthur, C. L., M.D., F.R.C.S.C.
Kobrinsky, S., M.D., F.R.I.P.H.
1 Demr. (Obstet.), 2 (Obstet. and Gynæcol.), 1 Instr.

Ophthalmology

Bell, P. G., D.S.O., B.A., M.D., F.A.C.S. Prof.
Campbell, W. E., B.A., M.D. Lectr.
2 Demrs.

Pathology

Nicholson, D., M.D., C.M., M.R.C.P. Prof.
Lederman, J. M., B.Sc. Sask, M.D. Lectr.
Meltzer, Sara, M.D. Lectr.
5 Demrs.

Pædiatrics, v. Medicine

Physiology and Pharmacology

Moorhouse, V. H. K., M.C., B.A., M.D. Tor. Prof.
Ormerod, M. J., M.D. Tor. Asst. Prof.
Rice, H. V., M.B. Tor. Lectr.
2 Demrs.

Preventive Medicine and Public Health

Douglas, A. J., B.A., LL.D., M.D., C.M., F.R.C.P.C. Prof.
Jackson, F. W., M.D., D.P.H. Tor. Lectr.
1 Instr.

Surgery

Gunn, J. A., C.B., O.B.E., B.A., M.D., F.A.C.S., F.R.C.S.C. Prof.
1 Demr.

Surgery, Clinical

Gunn, J. A. Prof.

Assoc. Professors

Gibson, A., M.B., Ch.B. Edin., F.R.C.S., F.A.C.S. (Orthop.) (also Lectr. in Appld. Anat.).
Waugh, O. S., M.D., C.M. McG., F.A.C.S.

Asst. Professors

Burns, C. W., B.A., M.D., C.M., F.A.C.S., F.R.C.S.C.
Fahrni, G. S., M.D., C.M., F.A.C.S., F.R.C.S.C.
McEachern, J. D., M.D., F.A.C.S.
Thorlakson, P. H. T., M.D., C.M., F.R.C.S.C.
Morse, H. D., M.D., C.M. McG., F.R.C.S.C. (Urol.)

Lecturers

Abbott, A. C., B.A., M.D., C.M., F.R.C.S. Edin., F.R.C.S.C.
Corrigan, C. E., B.A., M.D., F.R.C.S.
Gardner, W. A., B.A., M.D., C.M. McG., F.A.C.S. (Orthop.).
Herbert, S. G., M.D., Ch.M.
Musgrove, W. W., M.D., C.M., F.A.C.S.
Aikenhead, D. C., M.D. (Anæsth.).

MacCharles, M. R., M.D., C.M., F.R.C.S. Edin. and Can.
Collin, L. D., B.L., M.D. Mont., F.R.C.S.C.
MacKinnon, A. P., M.D., C.M., F.A.C.S., F.R.C.S.C. (Orthop.).
McIntyre, D. F., M.D., F.A.C.S. 9 Demrs.

Therapeutics, v. Medicine

Physical Education

Youmans, R. W. Director.

AFFILIATED COLLEGES represented on the Senate, the first four having power to confer degrees in Divinity:

ST. BONIFACE COLLEGE, St. Boniface (R.C.). Rector—Rev. Joseph Béliveau, S.J., B.A.

ST. JOHN'S COLLEGE, Winnipeg (C. of E.). Warden—Rev. Canon W. F. Barfoot, M.A., D.D.

UNITED COLLEGE, Winnipeg (United Ch. of Canada). Principal—Rev. W. C. Graham, Ph.D., S.T.M., D.D.

ST. PAUL'S COLLEGE, Winnipeg (R.C.). Rector—Rev. John S. Holland, S.J., B.A.

MANITOBA LAW SCHOOL, Winnipeg. Dean—T. W. Laidlaw, LL.B.

BRANDON COLLEGE, Brandon (Undenominational). President—J. R. C. Evans, B.A., Ph.D.

GENERAL INFORMATION

Established 1877, the Univ. was reconstituted in 1900 and 1917. For early history, *see Yearbook* for 1929. The Univ. has the sole power of conferring degrees in Arts, Science, Law, Med., Engin., Pharmacy, Agric., and Archit. in the province. It received in 1898 from the Dominion Govt. a land grant of 150,000 acres.

The buildings of the Junior Division in Arts and Sci. and the Med. buildings are in the city of Winnipeg, which, with adjacent municipalities, has a population of over 300,000. The site of the Senior Division in Arts and Sci., the Fac. of Agric. and Home Economics, the Fac. of Engin. and Archit., and the Fac. of Education, is in the municipality of Fort Garry, 7 miles from the centre of Winnipeg. The Univ. has 20 buildings on this site, including a University residence, the Manitoba Union, which has accommodation for 500 students. There are also on this site the Dominion Rust Research Laboratory and the Provincial Experimental Fur Farm.

UNIV. LIBRARY, 86,810 vols.; 1371 periodicals received. There are also 4000 mounted plates, the gift of the Carnegie Corpn. of New York for the use of the Dept. of Architecture. The Med. College has a library of 11,752 vols., and receives 228 periodicals. LABORATORIES: Anat., Bact., Bot., Chem., Engin. (Material testing—200,000 lbs., Cement, Elec.), Geol. and Mineral., Path., Physics, Physiol., Zool. MUSEUMS: Anat., Embry., Bot., Geol., Path. HOSPITALS available for clinics: 2 general (1000 beds) and several special, including tuberculosis. FARM (676 acres).

FACULTIES. (1) An Arts and Science Faculty providing instruction in all subjects of undergraduate courses in Arts (except 6 options), Science, Pharmacy and Commerce. (2) Medicine. (3) Engineering and Archit. (4) Agri-

culture and Home Economics. (5) Education. Other subjects of Arts course are taught in the affiliated Colls. Law is taught in the Manitoba Law School, which is under the direction of trustees jointly appointed by the Univ. and the Law Society of Manitoba.

MATRICULATION examn. is conducted in June by the Examn. Board of Manitoba, also a limited Matricn. in Sept. Satisfactory completion of Grades IX., X. and XI. of the Matricn. course of the Dept. of Educ. is required. Matricn. subjects for Arts or Sci. courses: English, Maths., Social Studies, 3 units of science (Genl. Sci. and two of Biol., Physics, Chem.), and at least one elective from the following: a second for. lang., a fourth science, Music, Home Econ., Industrial Arts, Comml. work. With a second for. lang. or music—when carried for 3 yrs. of High Sch.—only 2 units of science are required (Geol. Sci. and either Physics or Chem.). Matricn. may also be obtained with a third for. lang., the only science requirement being Genl. Sci. Exemption from examination is allowed in the subjects of Grades IX. and X. Matricn. to pupils of the Collegiate Institutes of the province, or of the Preparatory schools in connexion with the affiliated Colleges, who are recommended for such exemption by their school principals, and also exemption from examn. in the subjects of Grade XI. Matricn. (Arts and Sci.) to recommended pupils of approved schools under certain conditions. Entrance requirements for Medicine are clear standing of two pre-medical years in Arts and Science; for Law, of 2nd year in Arts; for Engineering, standing of one pre-engineering year in Arts and Science, and for Architecture, one pre-architectural year in Arts and Science. Members of any British or approved Univ. may be admitted *ad eundem statum* or *gradum* without Entrance examn.

DEGREE COURSES. 4 yrs.—B.A., B.Sc., B.Sc. (C.E. or E.E. or Geol. Engin.), B.Sc. (Phar.), B.Arch., LL.B., B.S.A., B.Sc. (H.Ec.), B.Com.; 5 yrs., following 2 pre-medical yrs.—M.D.; 5 yrs.—B.A. (Hons.), B.Sc. (Hons.). Graduates in Med. of at least 2 yrs.' standing with certain prescribed training and experience may obtain Ch.M. on passing written, oral and practical examn., and presenting a satisfactory thesis. A course involving research and governed by specl. regns. leads to the degree of B.Sc. (Med.). M.A., M.Sc., M.Arch., 1 or 2 yrs.' postgrad. course. B.Ed., 2 yrs.' postgrad. course; M.Ed., 1 yr. after B.Ed.

A UNIT SYSTEM has been adopted in the Arts and Science Faculty, the unit being "a body of work to which is assigned for instructional purposes one hour of lecture or other class-room exercise per week or one continuous laboratory period of 2 or 3 hours per week, throughout an entire session, or the equivalent." 40 units of credit in the "Junior Division" (work normally done in first two sessions) and 32 in the Senior General Division (for Honours, 48 in the Senior Honours Division) are required for the degree. Subjects are placed in groups, from each of which selection is made in accordance with definite regulations. For the B.A.—English (1 yr.), a foreign language (2 yrs.), Maths. (1 yr.), and a second yr. of English or a second foreign language are compulsory.

The M.A. may be obtained by candidates possessing the Honours B.A. of Manitoba, or an equivalent degree, by an extra year of full-time study under the direction of a committee of instructors. Candidates for the M.A. possessing the General Course B.A. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. A thesis is required as well as examn.

The M.Sc. requirements are at least one yr.'s grad. work in one or more of the Sc. depts. of the Univ. (incl. Maths.) or in the dept. of Civil Engin. or that of Elect. Engin., an examn. and a thesis. Candidates for the M.Sc. possessing the General Course B.Sc. of Man., or an equivalent degree, must first obtain 16 units of credit in Honours Courses. While taking the LL.B. course a

student may simultaneously obtain the Law Society's qualification for practice. An extra-mural course in Law may be taken by students residing in Manitoba elsewhere than in Winnipeg or environs. The LL.D. is honorary.

In the B.Sc. Engin. courses a thesis is required in the 4th yr. A summer thesis may be presented for credit by students entering the 2nd, 3rd or 4th yr.

Two yrs.' service in an Architect's office following graduation (B.Arch.) will qualify for licence to practise.

DIPLOMAS. Pharmaceutical Chemistry (2 yrs.); Agriculture (2 yrs.); Interior Decoration (3 yrs.); Dairying (3 mos.); Education (1 yr. postgrad.).

The Univ. conducts examns. for admission to the Man. Assoc. of Registered Nurses, to the practice of Dentistry and membership of the Man. Dental Assoc., to the practice of Accountancy and membership of the Inst. C.A. of Manitoba, to the practice of Architecture and membership of the Man. Association of Archts.; also qualifying examns. for the Man. Civil Service.

MUSIC. The Univ. conducts examns. in all grades of vocal and instrumental music (Piano, Organ, Violin, Viola, Violoncello) and musical theory and history leading to the diploma of Assoc. in Music, Man. (A.M.M.). Holders of the A.M.M. or equivalent standing may obtain the Licentiateship dipl. on passing an advanced practical examn. Music may be offered as an elective for Matricn. if carried for 2 or 3 yrs. in High School and at least the prescribed minimum grade is attained. It is also an elective in the Junior Division in Arts, and in the second year in Home Econ.

Examns. are based on a syllabus of the Western Board of Music, composed of representatives of the Universities and Depts. of Educ. of Manitoba, Saskatchewan, and Alberta.

FEES. Tuition and examn. in Arts and Sc., $120 p.a. in Junr. Divn., $130 p.a. in Senr. Divn.; Engin. and Arch., $190; Phm. Dipl. course, $155; Med., 1st, 2nd, 3rd, and 4th yrs., $240, 5th yr., $115; Law, $140. Licence to practise Med., $100. Agr. Dipl. course, $28, Degree course, $95 (1st and 2nd yrs.) and $125 (3rd and 4th yrs.).

SCHOLARSHIPS for graduates: 2 Travelling Fellowships, each $400, offered each yr.: one to a graduate in Arts, and, in alternate years, one in Science and one in Engineering, tenable at some other seat of learning. Boyd Travelling Fellowship, $400, is offered for 1939 to Masters of Educ.

RESIDENCE. Hostels at all affiliated Arts Colls. and at the Fort Garry site. Approx. cost of board and room for academic year, $200.

UNIVERSITY EXTENSION. (1) Institute Evening Courses of a cultural character. (2) Winter Evening Business courses in Acctcy., Comml. Law, English, Pol. Econ., etc., given partly by members of regular Univ. staff. (3) Radio popular lectures and broadcasts of music chosen from the Music Syllabus. (4) Course on Public Administration and Finance for Municipal officials and members of Municipal Councils. (5) Short courses in Farm Equipment Repairing, Bee-keeping, Dairying, Poultry, Home Vegetable and Fruit Growing, Home Grounds Beautification and Flower Growing, Fur Farming, Field Crops, Egg Grading and Marketing. (6) February series of popular lectures. (7) Programme of Adult Education in Fine Arts in rural communities of the Province. (8) *Summer School*—6 wks. in July and Aug. under auspicies of Univ. and Provl. Dept. of Educ. Courses for Teacher Training, and in Grade XI., Grade XII. and Arts and Sci. subjs. (9) Workers' Educational Assoc. classes. (10) Extension Service in Agric. and Home Econ. through correspondence, lectures, judging, bulletins, etc. (11) Dept. of Music Extension, under a Director of Music.

EXTRA-MURAL WORK. Correspondence courses carrying degree credit are offered in certain subjects of the Second Year in Arts. Only one 4-unit course or its equivalent may be taken in any one regular session. No other extra-mural work permitted.

PUBLICATIONS. *Calendars* (July), of the several faculties, free; *Manitoban* (students' paper), semi-weekly; *Annual Report*; *Historical Notes* (1877–1917); *Inaugural and Convocation Addresses*; *List of Faculty Publications*; *University Bulletin and Alumni Journal*, quarterly.

THE YEAR 1937–38

BENEFACTIONS. $5000 voted by Legislature for 20 Matriculation Schols. which were increased to $325 each by the Univ.; Magnus Hinrikson Bequest, $3000 towards establishment of chair in Icelandic; Carnegie Corpn. of New York, $1800 for extension work in Adult Education in Fine Arts; Anon. ("The Friends of Music"), $1100 for Dept. of Music Extension; United Grain Growers, £1100, Canada Malting Co., $250, Dominion Malting Co., $250, for research in barley improvement; H. E. Sellers, 10 schols. of $100 each in Arts; J. Stanley McLean, 4 schols. of $125 each p.a. for 5 years in Hons. Course in Arts and Sci.; Conrad A. Orloff, schol. of $100 p.a. in Actuarial Sci.; Winnipeg Alumnæ of Gamma Phi Beta Sorority, schol. of $100 p.a. in Arts, Sci., or Home Econ.; Home Econ. Students' Society, schol. of $60 p.a. in Home Econ.; N. P. Portnoy, schol. of $60 p.a. for 3 years in Commerce; Winnipeg Electric Co., 3 transformers and elec. equipment; Workers' Educational Assoc. of Canada, $200 for W.E.A. Classes; H. M. Tucker, $200 for the furnishing of the Music Room; Dr. J. H. R. Bond, entomological and other museum specimens and books; D. K. Elliott, 3 pieces of statuary and other decorative objects. The Alumni Assoc. established the Jubilee Award (Medal). Numerous donations to the Library, the largest donors being Mr. F. E. Nuttall, former librarian of the Univ.; estate of the late Prof. H. F. Roberts; Miss F. M. Best; Emeritus Prof. M. A. Parker; Assoc. Prof. J. A. Russell; Home Econ. Student Body; Mr. Sidney T. Smith.

NEW DEVELOPMENTS. A 4-year course in Geological Engineering (following a pre-engineering year) established, leading to degree of B.Sc. in Geol. Engin.; a 3-year diploma course in Interior Decoration established; entrance requirements for Fac. of Educ. and curricula in Agric. and Home Econ. revised; Honours work introduced into First Year of Senior Div. in Arts for students recommended therefor by their instructors. In view of the raising by the Pharmaceutical Assoc. of the educational qualification for registration as a certified apprentice to First Year Arts and Sci. or Grade XII., the present diploma course in Pharmacy will be superseded by a 3-year degree course, commencing in 1940.

VISITORS TO THE UNIVERSITY. Prof. E. V. McCollum (Johns Hopkins Univ.), "Nutrition"; Prof. A. L. Burt (Univ. of Minnesota), "Canada and the Fear of the United States"; Donald Ferguson (Univ. of Minnesota), lecture-recital on Beethoven; Dr. Arthur H. Egerton (McGill Univ.), lecture-recital on the Fitzwilliam Virginal Book; Prof. F. S. Risdon (Univ. of Toronto), "Traumatic Surgery." Notable addresses were also delivered by the Hon. Norman McLeod Rogers, Minister of Labour, on "Responsibility," and Oliver Downes, Music critic of New York, on "The Attainment of Creative Expression in Art."

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. R. Daniells lectured at the Summer School of the Univ. of Wisconsin; Prof. L. A. H.

Warren at the Summer School of the Univ. of Sask. ; Asst. Prof. W. M. Hugill and Prof. R. McQueen at the Summer School of Queen's Univ. Asst. Prof. W. J. Waines during the latter half of the session, acted as a technical adviser to the Dominion-Provincial Royal Commission.

RETIREMENTS. Prof. G. W. Fletcher (Otolaryngol.); Asst. Prof. R. F. Jones (Pol. Econ. and Sociol.).

RESIGNATIONS. R. H. Fraser (Physiol.) ; Blake Watson (Obstet.).

DEATHS. Principal John MacKay of Manitoba College ; Dr. O. Bjornson, Prof. Emer. of Obstetrics.

HONORARY DEGREES. *LL.D.*—His Honour William Johnston Tupper, K.C., Lieut.-Govr. of Manitoba ; Hon. Norman McLeod Rogers, M.A., B.Litt., B.C.L., Federal Minister of Labour ; Elmer Verner McCollum, A.M., Ph.D., D.Sc., Prof. of Biochem. and Head of School of Hygiene and Public Health, Johns Hopkins Univ.

STUDENTS. Full-time : 2504, incl. 23 graduates. Part-time : 79, incl. 33 graduates. Extension : 688. Correspondence : 75. Summer School : 1034.

DEGREES. B.A., 177 ; M.A., 1 ; LL.B., 12 ; B.Sc., 48 ; B.Sc. (H.Ec.), 50; B.Sc. (C.E.), 12 ; B.Sc. (E.E.), 28 ; M.Sc., 5 ; M.D., 48 ; B.S.A., 12 ; B.Arch., 9 ; B.Ed., 12 ; M.Ed., 2 ; B.Sc. (Med.), 1.

DIPLOMAS. Agric., 8 ; Pharmacy, 17 ; Education (First Year), 47 ; Associate in Music, 4 ; Licentiate in Music, 1.

MONTREAL UNIVERSITY

Founded 1878

CHANCELLOR—S.G. Mgr. P. BRUCHÉSI, D.Th., Archbishop of Montreal; ACTING—S.G. Mgr. GEORGES GAUTHIER, Archbishop of Tarona, Apostolic Administrator, O. Lég. d'H.

RECTOR—Mgr. OLIVIER MAURAULT, p. S.-S., P.D., D.C.L.

PRESIDENT—.....

PRESIDENT OF THE EXECUTIVE COMMITTEE—V. DORÉ, C. Lég. d'H., D.Sc.Com.

VICE-RECTOR—Canon E. CHARTIER, M. ès A., L. ès L., D.Ph., LL.D.

SECRETARY-GENERAL AND DIRECTOR OF EXTRA-MURAL RELATIONS—E. MONTPETIT, B.A., LL.D., K.C., D.S.P. Paris, membre de l'Ac. roy. lang. et litt. françaises de Belgique, Chev. O. Léop., O. Lég. d'H.

ASSISTANT SECRETARY-GENERAL—DAMIEN JASMIN, B.A., Ph.D., LL.D.

TREASURER—O. ARCHAMBAULT.

LIBRARIAN—A. FAUTEUX, B.A., Litt.D.

TEACHING STAFF

Agriculture, v. *infra* Affiliated Instns.

Anatomy, v. also *infra* Med.—Histology

Masson, P., M.D. (A. Path.) Prof.
Caumartin, P., M.D. Prof.
Bolté, R., M.D. Prof.
Simard, L. C., M.D. (A. Path.) Asst. Prof.
Rivard, J. H., M.D. Asst. Prof.
Delage, J.-B., M.D. Asst. Prof.
2 Assts.

Applied Science, v. *infra* Affiliated Instns.

Art, History of

Lagacé, J. B., M.A. Laval and Montr., D. de l'U. Prof.

Biology

Préfontaine, G., B.A., M.D. Prof.
Gardner, G., B.A., Lic. ès Sc., D. de l'U. Paris Prof.
Fournier, Abbé O. Lectr.
Prévost, Gustave Lectr.
Dugal, L.-P. Lectr.
Chagnon, G.

Botany

Marie-Victorin, Frère, D.Sc. Prof.

Lecturers

Rousseau, J. B. A., Ph.D.
Brunel, J., L. ès Sc.
Gauthiér, R., L. ès Sc.

Canadian Literature

Chartier, Canon E., M.A., L. ès L. Paris, D.Phil. Rome, LL.D. McG.* Prof.

Chemistry, v. also *infra* Affiliated Instns.

Baril, G. H., M.D. (Org. C.) Prof.
Nadeau, H., L. ès Sc. Paris Asst. Prof.
Flahault, J., L. ès Sc. Lille (Phys. C.). Asst. Prof.

* Dean of the Faculty.

Cartier, P., B.A., L. ès Sc. Asst. Prof.

Lecturers

Barré, R., B.A., D.Sc. Paris.
Delorme, G., B.A., L. ès Sc.
Labarre, J., D. ès Sc. Paris (Biol. C.).
Lortie, L., D. ès Sc. Paris.
Lemay, L., M.Sc.
Cartier, C., L. ès Sc.
Lamontagne, R., L. ès Sc.
Montpetit, P., L. ès Sc.
Asselin, Père J., L. ès Sc.

Classics

Chartier, Canon E., M.A., L. ès L. Paris, D.Phil., LL.D. (Gk.) Prof.
Vadnais, Abbé R., L. ès L. (Latin) Lectr.

Commerce, v. *infra* Affiliated Instns.

Dentistry, v. *infra*

Drawing

Lagacé, J.-B. Ind. Lectr.

Economics, v. *infra* Soc. Sciences, School of

Engineering, v. *infra* Affiliated Instns.

English Literature

Atherton, W. H., M.A., Ph.D., LL.D., D. ès L. Prof.

French Literature [Prof.

Sideleau, Abbé A., L. ès L. Paris.

Geography, v. *infra* Social Sciences, School of

Geology, v. also *infra* Affiliated Instns.

Morin, Père L., L. ès Sc. Prof.

History

Groulx, Abbé L., LL.D. Ott., M.A., D.Th., D.Ph. (Canadian H.) Prof.
Atherton, W. H., M.A., Ph.D., LL.D., D. ès L. (Canadian H.) Prof.

Asst. Professors

Bernard, Frère A. (H. of Acadia)
Nadeau, J. M. (Gen. H.)

Journalism, v. *infra* Social Sciences, School of

Law, v. *infra*

Mathematics

Léveillé, A., B.A. Lond.* Prof.

Asst. Professors.

Beaupré, V. E., B.A., I.C.
Gauthiér, A., L. ès Sc.
Vallerand, J. P., Lic. Sc. Com.

Medicine, v. *infra*

Mineralogy, v. *infra* Affiliated Instns.

Modern Languages (German, Spanish, and Italian)

Jasmin, Abbé H., D.Ph., D.Th., L.E.S., M.A. Prof.

Music, v. *infra* Attached Instns.

Pedagogy

Maurice, Abbé O., D.Péd. (Primary) Prof.
Also for Secondary, the Profs. of the Fac. of Letters.

Philosophy

Forest, Rev. C., O.P., Th.M.* Prof.
Gauthier, Abbé O., D.Th., D.Ph. Prof.
Jasmin, D., B.A., LL.D., D.Ph. (Hist. and Critic. of Social and Econ. Doctrines) Prof.
Lussier, Abbé J. (Exp. Psychol.) Prof.
Filion, E., P.S.S. (Theodicy) Prof.
Barbeau, A., M.D., D.Ph. (Nervous system) Asst. Prof.
Wendling, A. V., L. ès Sc. Paris, I.E. (Physics) Asst. Prof.

* Dean of the Faculty.

Ind. Lecturers
Voyer, R. M., O.P., S.Th.L. (Psychol.).
Peghaire, J., C.S.Sp., D.Th., D.Ph. (Critic.).
Gagnon, E., C.S.C., D.Th., D.Ph. (Cosmol.).
Fafard, L., C.S.V., D.Th., D.Ph. (Ethics).
Perrier, Abbé A., D.Th., D.Ph. (Social Morals).
Bastien, M. H., Ph.D. (Hist. of P.).
Guilbeault, Abbé Chs. E. (Logic).
Marie-Victorin, R. F., D.Sc.
De Koninck, C., D.Ph. Louvain (Cosmol.).
Bédard, A., D.Th., D.Ph.

Physics

Gendreau, E., B.A., L. ès Sc. Paris, M.D., D.Phil. Prof.
Demers, J., B.A., L.ès Sc. Asst. Prof.
Wendling, A. V., L. ès Sc. Paris, I.E. Lectr.
Dufresne, O., B.A., M.D. Lectr.

Physiology

Asselin, E.-G., M.D. Prof.
Barbeau, A., M.D., Ph.D. Asst. Prof.
Gosselin, G., M.D. Asst. Prof.

Theology

Professors
Allard, R., D.Th.
Ferland, A., D.Th.
Duchein, F., D.Th.
Gattet, B., D.Th.
Charron, Y., D.Th.
Lesieur, R., D.Th.*
McShane, G., D.Th.
Dupaigne, P.
Pustienne, A., D.Th.
Belcourt, E., D.Th.
Desrosiers, J.-B., D.Th.
Boudreau, H., D.Th.
Ouimet, A., D.Th. (Hebrew and Gk.).
Bissonnette, R., D.Th.
Laurence, J. P., D.Th.
Duhamel, R.
Morin, C.
Belanger, V.
Sauvé, I.
Yelle, G.
Dérome, L.

Veterinary Science, v. *infra* Affiliated Instns.

Law

Demers, Hon. L. P., LL.D, J. of High Ct.*

Administrative and Munic. L.

Baudouin, G., LL.D. Prof

Civil L.

Beaulieu, E., LL.D., K.C. Prof.
Caron, M., LL.D. Lectr.
Loranger, Hon. L., LL.D., J. of High Ct. Lectr.

Civil Procedure

Genest, R., LL.D. Prof.

Commercial and Marit. L.

Perrault, A., LL.D., K.C. Prof.

Constitutional L.

Cousineau, Hon. P., LL.D., J. of High Ct. Prof.

Criminal L.

Gendron, L., LL.D. Prof.

Finance, Comml. & Indust. L.

Perrault, A., LL.D. Prof.
Gérin-Lajoie, A., LL.D. Asst. Prof.
Fairbault, R., LL.L. Asst. Prof.

Hist. of Law

Gérin-Lajoie, A., LL.D. Lectr.

Internat. L.

MacKay, H., LL.D. Lectr.

Notarial Procedure

Morin, V., LL.D. Prof.

Roman L.

Caron, M., LL.D. Lectr.

* Dean of the Faculty.

Social Sciences, Economics

Montpetit, E., B.A., LL.D., K.C. Prof.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology

Frappier, A., M.D. Prof.
Aubry, H., M.D. Asst. Prof.
Bertrand, A., M.D. Asst. Prof.
Gauthier, P.-P., M.D. Asst. Prof.

Chemistry, Physiological

Baril, G.-H., M.D. Prof.
Nadeau, H Lectr.
Gosselin, G., M.D. Lectr.

Contagious Diseases

Leduc, J., M.D. Prof.

Deontology

Parizeau, T., M.D. Prof.

Dermatology and Syphilis

Marin, A., M.D. Prof.
1 Clinical Assistant.

Diseases of Children

Lapierre, G., M.D. Asst. Prof.
Baril, H., M.D. Asst. Prof.
Coutu, L., M.D. Asst. Prof.
2 Clinical Assistants.

Gynæcology, v. Obstetrics and Gynæcology

Histology and Embryology

Bonin, W., M.D. Asst. Prof.
Bélanger, R., M.D. Asst. Prof.
2 Assts.

History of Medicine

Saint-Jacques, E., M.D. Prof.

Hygiene

Baudouin, J. A., M.D. Prof.
Roeh, S., M.D. Asst. Prof.

Legal Medicine

Fontaine, R., M.D. Lectr.

Materia Medica Asst. Prof.
Nadeau, C., M.D. (also Pharmacol.).

Medical Ethics [Prof.
Chaput, R. P. Chs., D.Th., D.Ph.

Medical Physics

Gendreau, J. E., M.D. Prof.
Demers, J., B.A., L. ès Sc. Asst. Prof.
1 Asst.

Medicine, Clinical

Benoit, E. P., M.D. Prof.
Lesage, A., M.D.* Prof.

Asst. Professors
Dubé, E., M.D. (also in Pathol.).
Pepin, J. R., M.D.
Robichaud, P.-A., M.D.
Hamel, G., M.D.
Rouleau, A., M.D.
Mousseau, J. A., M.D.
De Guise, A., M.D. (also in Pathol.).
8 Clinical Assistants.

Mental and Nervous Diseases

Bellefeuille, G. L. de, M.D. Prof.
Noël, O., M.D. Asst. Prof.
Larose, C., M.D. Asst. Prof.
Legrand, E., M.D. Lectr.
Larivière, P., M.D. Asst.

Neurology, v. Mental and Nerv. Dis.

Obstetrics and Gynæcology

Asst. Professors
Langevin, S., M.D. (Obstet.).
Marion, D., M.D. (Obstet.).
Gérin-Lajoie, L., M.D. (Gynæcol.).
Trudeau, R., M.D. (Clin. G.).
Sanche, H., M.D. (Clin. O.).
Magnan, A., M.A. (Clin.) Lectr.
3 Clinical Assistants.

Ophthalmology, Otology and Rhino-Laryngol.

Roy, J.-N., M.D. Prof.

Asst. Profs. (Clinical)
Brault, J., M.D.
Panneton, P., M.D.
Badeaux, F., M.D.
Joubert, L. de G., M.D.
3 Clinical Assistants.

* Dean of the Faculty.

Orthopædics, Clinical

Ferron, A., M.D. Prof.
Dubé, E., M.D. Asst. Prof.
Rivard, J.-H., M.D. Asst. Prof.
Crépault, P.-Z., M.D. Lectr.

Pathology, v. also Med., Clin.

Léger, A., M.D. Prof.
Dubé, E., M.D. (Surg. Path.) Prof.

Asst. Professors

Boucher, R., M.D.
De Guise, A., M.D.
Paré, A., M.D. (Surg. Path.).
Bellerose, A., M.D. (Surg. Path.).
Legrand, E., M.D.

Pediatrics, v. also Orthopædics, Clin.

Lapierre, G., M.D. Prof.

Pharmacology and Therapeutics

..... Prof.
Nadeau, C., M.D. Asst. Prof.

Pharmacy, v. *infra*

Phthisiotherapy

Jarry, J.-A., M.D. Prof.

Asst. Professors

Verschelden, L., M.D.
Mignault, G. E., M D.
Vidal, J.-A., M.D.
Cholette, A.-M., M.D. Clin. Lectr.
Noiseux, F. O., M.D.
Ladouceur, L., M.D.
Laurier, Y., M.D.

Radiology, etc.

Laquerrière, A. Lectr.
Comtois, A. Lectr.
Langlois, C. Lectr.
Leonard, D. Lectr.

Surgery, Clinical, v. also Pathol.

Bourgeois, B.-G., M.D. Prof.
Mousseau, J. A., M.D. Prof.
Rouleau, A., M.D. Prof.
Hingston, D. A., M.D. Prof.

Asst. Professors

Paré, A., M.D.
Blagdon, L., M.D.
Bellerose, A., M.D.
Gariépy, U., M.D.
Langlois, E., M.D.
Gariépy, L.-H., M.D.
Amyot, R., M.D.
Saucier, J., M.D.
Prud'homme, E., M.D. (Clin.).
Trottier, E., M.D. (Clin.).
2 Clinical Assistants.

Surgery, Operative

Gariépy, U., M.D. Prof.
Fauteux, M., M.D. Asst. Prof.
Bernard, L. Asst. Prof.
Dionne, L.-R. Asst. Prof.
Tremblay, J. Asst. Prof.

Toxicology

Fontaine, R., M.D. Prof.
Rousselle, J. M., M.D. Asst.

Urology, Clinical

Mercier, Oscar, M.D. Prof.

Dentistry

Dubeau, E., L.C.D., D.C.D.* Prof.
Nolin, J., L.C.D., D.C.D. Prof.
Charron, E. H., L.C.D., D.C.D. Prof.
Duhamel, J. A., M.D. Prof.
Marsan, G. A., C.R. Prof.
Perrault, J. F., L.C.D., D.C.D. Prof.
Coté, T., L.C.D., D.C.D. Prof.
Asselin, E. G., M.D. Prof.
Thibaudeau, A., L.C.D., D.C.D. Prof.
Lantier, J. P., L.C.D., D.C.D. Prof.
Baudouin, J. A., M.D. Prof.

Asst. Professors

Geoffrion, P., L.C.D., D.C.D.
Jutras, L. J., M.D.
Baril, G. H., M.D.
Aubry, H., M.D.
Renaud, J. A., L.C.D., D.C.D.
Charpentier, J. L., L.C.D., D.C.D.
5 Lectrs., 18 Clinicians and Demrs.

* Dean of the Faculty.

Pharmacy, School of

v. also *supra* Chemistry

Contant, J., D.Phm.* Prof.
Laurence, A.-J., L.Phm. Sec.-Dir. and Prof.
..... Prof.
Vadboncœur, E., L.Phm. Prof.
Quintin, A.-D., L.Phm. Prof.
Boutin, J., L.Phm. Prof.
Flahault, J., L. ès S. Lille (Chem.) Prof.
Pilon, H. J., L.Phm. Prof.

Asst. Professors

Barré, R., B.Phm.
Labarre, J., B.Phm.
Lalonde, Henri, L.Phm.
Fervac-Laroze, A., B.Phm.
Larose, R., B.Phm.
Riopel, P. E., B.Phm.
Houle, L., B.Phm.

Social Sciences, School of

v. also *supra* Hist. and Law

Economics and Politics [Dir.
Montpetit, E., K.C., LL.D. (Econ.).
Forest, R. P. C. (Soc. Philos.).
Levesque, R. P. (Soc. Philos.).
Vanier, G., LL.L. (Comml. Law).
Bruchési, Jean (Foreign Pol.).
Bruchési, Émile (Pub. Law.).
Baudouin, J. A., M.D. (Hygiene).
Vézina, F. (Econ.).
Tessier - Lavigne, Y. (Human Geog.).
Saint-Pierre, A. (Sociology).
Gouin, L.-M. (Indust. Law and Hist. of Econ.).
Perrier, H. (Indust. Law).
Doré, V. (Finance).
Désy, A. (Hist. of Econ. Doc.).
Nadeau, Jean-Marie (Econ. Policy).

Journalism

Pelletier, G. (Redaction and Admin.).
Fauteux, N. (Hist. of J.).
Rinfret, Hon. F.
Leduc, A. (Law of J.).

AFFILIATED INSTITUTIONS

AGRICULTURAL INSTITUTE at Oka, about 30 miles from Montreal, founded 1893 by the Trappist Fathers of Oka. *Director*, le R. P. Déodat. *Director of Studies*, le R. P. Léopold. 25 other staff and 10 Supts. of Practical Work for: Agr. Botany; Animal Biology and Hygiene; Animal Industry; Animal Pathol. and Bact.; Apiculture; Arboriculture; Aviculture; Buildings and Accounts; Chemistry, Geol. and Mineral; Cereals; Dairying; Entomol.; Food Preservation; French Fruit and Flower Gardening; Kitchen Gardening; Large-scale Farming and Machinery; Maths.; Physics; Physiol.; Phytopathol. and Entomol.; Polit. Econ.; Soils; Rural Econ.

COMMERCE. École des Hautes Études Commerciales. Created by the Provincial Govt. in 1907. *Director*, Prof. Esdras Minville. 11 other Profs., 11 Asst. Profs. and 17 Lectrs. for: Accountancy; Banking; Chemistry; Customs Legislation; Economics; English; French; Geography; Geog., Economic; German; History; Insurance; Italian; Law, Comml. and Indust.; Maths.; Philosophy; Physics; Publicity; Spanish.

OPTOMETRY, SCHOOL OF. Director, A. Phaneuf.

PURE AND APPLIED SCIENCE, including Engineering. The École Polytechnique, which was founded in 1874, is subsidized by the Govt. of the Province of Quebec and the principal Railways of the Dominion. *Principal*, A. Frigon. *Director*, A. Circé. 9 Hon. Profs., 11 Profs., 7 Asst. Profs., and 16

* Dean of the Faculty.

Lectrs. for: Architecture; Chemistry; Electricity; Electro-technics; Engineering—Civil, Elec., Mech., and Sanit.; Geology; Geometry; Graphical Statistics; Industrial Chem.; Industrial Legislation; Machine Drawing; Maths.; Mineral.; Physics; Public Works; Railways; Strength of Materials; Thermodynamics.

VETERINARY MEDICAL SCHOOL at Oka. *Director*, le R. P. Déodat. 16 other members of staff for: Anatomy; Aviculture; Bacteriology; Botany; Chemistry; Farriery; Histology; Materia Medica; Milk Inspection; Obstetrics; Parasitology; Pathology; Physiology; Serology; Zootechnics.

ENSEIGNEMENT SECONDAIRE OU CLASSIQUE. 15 Colleges for boys are affiliated to the Univ. under conditions providing for a 4 yrs.' High School course followed by a 4 yrs.' Coll. or Arts course, on the completion of which a student may qualify by examn. for a diploma admitting him to professional studies in the Univ. The Collège Marguerite Bourgeoys provides similar College or Arts course for girls.

INSTITUT PÉDAGOGIQUE POUR LES FEMMES. *Directress*, Sœur Sainte-Théophanie.

INSTITUT PÉDAGOGIQUE ST. GEORGES POUR LES HOMMES, founded 1929. *Director*, Frère Léo.

INSTITUT MARGUERITE D'YOUVILLE, École Supérieure pour garde-malades. *Directress*, Sœur Allaire.

ATTACHED INSTITUTIONS (ÉCOLES ANNEXÉES)

CONSERVATOIRE NATIONAL DE MUSIQUE. *Director*, E. Lapierre. 6 staff.

INSTITUT NAZARETH ÉCOLE DE MUSIQUE. *Directress*, Sœur Morin. 11 other teachers.

ÉCOLE SUPÉRIEURE DE MUSIQUE DE L'INSTITUT DES SS. NN. DE JÉSUS ET DE MARIE. *Directress*, Sœur Marie-Stéphane. 12 other teachers.

ÉCOLE SUPÉRIEURE DE MUSIQUE DE L'INSTITUT DES SŒURS DE STE-ANNE. *Directress*, Sœur Marie-Valentine. 4 other teachers.

ÉCOLE DE MUSIQUE RELIGIEUSE (Schola Cantorum). *Director*, J.-N. Charbonneau. 10 other teachers.

ÉCOLE DE DESSIN.

DOMESTIC ECONOMY, 6 schools.

ÉCOLE MÉNAGÈRE PROVINCIALE. *Directress*, Mme Rose-C. La Croix.

ÉCOLE D'ÉDUCATION FAMILIALE. *Directress*, Sœur Marie Gérin-Lajoie.

ÉCOLE DE TOURISME. *Director*, W. Du Cap. 7 teachers.

CONSERVATOIRE LASSALLE (French elocution and oratory). *Director*, G. Landreau. 6 teachers.

ÉCOLE DE BIBLIOTHÉCAIRES. *Director*, A. Fauteux.

INSTITUT PIE XI.

SCHOOL OF APPLIED HYGIENE (École d'Hygiène Sociale Appliquée), attached to the Faculty of Medicine. *Director*, Dr. J. A. Baudouin. 17 teachers.

RADIUM INSTITUTE. *Director*, Dr. E. Gendreau. Founded 1922, affiliated to the Radium Institute in Paris, 1923. Hospital attached.

GENERAL INFORMATION

The Univ. was incorporated under its present name by an Act of the Provl. Legislature on Feb. 14, 1920. For early history, see *Yearbook* for 1929. In 1920 Faculties of Pure Science and of Letters and a School of Social, Economical and Political Sciences were formed; in 1921 the School of Dental Surgery was made a separate Faculty, and the Conservatory of Music was affiliated; in 1922 the Faculty of Philosophy was created. A Radium Institute was created in 1923. The general administration is conducted by a Senate, Commissions of Admn. and Studies, Univ. Council and Exec. Committee. Endowments: $4,000,000 from a national subscription (1920), $1,000,000 from the Provl. Govt., and $1,000,000 from the Seminary of St. Sulpice.

LIBRARY, 126,000 vols. Each Faculty and School has the necessary teaching collections and laboratories.

FACULTIES. Theol. (constituted by the Grand Seminary of St. Sulpice); Philosophy; Law; Med.; Letters; Sciences; Dental Science. Incorporated in the Univ. are Schools of Pharmacy, and Social, Econ. and Polit. Sciences.

DEGREES AND DIPLOMAS. Courses in the incorporated and affild. institns. include—a 5 yrs.' course in the Éc. Polyt. for the B. ès Sc. App.; 4 yrs. in the Veterinary School for the D. en Méd. Vét.; 4 yrs. in the Éc. de Ch. Dent. for the D. en Ch.D.; 4 yrs. in the Éc. de Phm. for the B. en Ph. and D. en Ph.; 4 yrs. in Inst. Agric. d'Oka for the L. en Agr., B. en Agr. and D. en Sc.Agr.; 3 yrs. in the Éc. des H.É. Comm. for a L. en Sc. Com. and B. en Sc. Com. Courses leading to degrees in Music at the Conservatoire National de Musique and at the Éc. Sup. de Musique des Sœurs des SS. NN. de Jésus et de Marie.

FEES. Annual. Theology, $300; Law, $190; Medicine, $240; Philosophy, $15; Dentistry, $200; Social Science, $15; Polytechnic, $175.

PUBLICATIONS. *Annuaire général* (June); *La Revue trimestrielle cana dienne*: *L'Actualité économique*; *L'Action universitaire.*

THE YEAR 1937–38

NEW BUILDINGS in construction on the "Mont-Royal."

EXTRA-MURAL WORK. Radio lectures under the auspices of the Canadian Radio Commission (Radio-Canada).

VISITS FROM OTHER UNIVERSITIES. Alfred Ernout, directeur d'études à l'École des Hautes Études de Paris; Jacques Rabat, ingénieur des constructions civiles de l'École nationale des ponts et chaussées; Étienne Gilson, professeur de philosophie médiévale à l'Université de Paris; Dr. Antoine La Cassagne, directeur adjoint de l'Institut du Radium de Paris; H. Truchy, professeur à la Faculté de droit et à l'École des Hautes Études de Paris.

DEATHS. Dr. R. Trudeau, prof. agrégé à la Faculté de médecine; Dr. P. E. Bousquet, Dr. L. N. Delorme, Dr. A. Laramée, Dr. T. Bruneau, profs. à la Faculté de médecine; Dr. D. Généreux, président de l' École vétérinaire; Dr. J. H. Villeneuve, ancien prof. à l'École vétérinaire; Dr. J. A. Pinault, prof. à la Faculté de chir. dentaire; Dr. L. J. Dalbis, prof. agrégé à la Faculté des sciences; Dr. A. Mailhiot, directeur de l'École polytechnique; Hon. R. Lemieux, prof. émérite à la Faculté de droit; Abbé E. Hébert, prof. émérite à la Faculté de philosophie; Sœur St. Gabriel, directrice de l'École ménagère des Sœurs Grises.

HONORARY DEGREES. *D. de l'U.*—Sœur Allard, M.M. Osias Leduc et Clarence Gagnon. *M.D.*—Dr. Louis Martin. *D.C.D.*—Dr. Joseph Denonville Bachaud. *D.M.V.*—Dr. Charles Mitchell.

STUDENTS. Full-time: 7296, including 829 graduates. Part-time: 1980, including 74 graduates.

DEGREES. D.Th., 3; L.Th., 12; B.Th., 26; LL.D., 1; LL.L., 11; LL.B., 18; M.D., 38; D. en Hyg. Pup., 1; Ph.D., 12; Ph.L., 1; D. ès Lett., 2; L. ès Lett., 4; M. ès Lett., 11; B.A., 473; D. ès Sc., 1; M. ès Sc., 2; L. ès Sc., 13; D.S.C., 1; D.C.D., 15; B.C.D., 10; D.M.V., 11; B.S.Ap., 24; I.C., 34; I.Ch., 1; B.S.A., 18; L.S.A., 10; L.S.Com., 39; B.Sc.C., 17; L. ès Sc. Compt., 4; Lic. Sc. soc. écon. et pol., 30; Bac. Sc. soc. écon. et pol., 1; B. en Pharm., 13; B. en Opt., 9; Dipl. Journ., 15; L. Pédag., 3; B. Pédag., 24; B. en Mus., 10; Lic. en Mus., 3; M. en Piano, 5; B. ès Sc. Hosp., 5; Dip. Hyg. Soc. Ap., 12.

MOUNT ALLISON UNIVERSITY, SACKVILLE, N.B.

Founded 1858

CHAIRMAN OF THE BOARD OF REGENTS—R. C. TAIT, LL.D.
PRESIDENT OF THE SENATE—G. J. TRUEMAN, Ph.D. Col., M.A.
SECRETARY AND LIBRARIAN—Prof. F. W. W. DES BARRES, B.A., D.D.
DEAN OF THE FACULTY OF ARTS AND REGISTRAR—Rev. H. TUCKER, B.A. Acad., A.M. Harv., Ph.D. Hartf.

TEACHING STAFF

Art, v. School of Fine Arts, *infra*

Biology

Fraser, R., B.S.A. Tor., M.A. Kansas Prof.
Ingalls, R. A., B.A. Acad., M.Sc., Ph.D. Rutgers Asst. Prof.
Potter, J. M., B.A. Instr.

Chemistry

Bigelow, H. E., Ph.D. Harv., F.R.S.C. Prof.
Cuthbertson, A. C., Ph.D. McG. Asst. Prof.
Hewson, W., B.A. Instr.
Hills, C., B.Sc. Instr.

Classics

Cohoon, J. W., M.A. Tor., Ph.D. Princet. Wood Prof.
Wall, Georgie M., M.A. Chic., B.A. (Latin) Asst. Prof.

Economics and Sociology

Tucker, Rev. H., B.A. Acad., A.M. Harv., Ph.D. Hartf. Joseph L. Black Prof.

Education

Trueman, G. J., Ph.D. Col., M.A. Prof.
Flemington, Rev. W. T. R., B.Pæd. Tor., M.A. Lectr.

Engineering

McKiel, H. W., B.A., B.Sc. Qu. (Mech.E.) Brookfield Prof.
West, F. L., B.Sc. McG., M.A. Director, McClelan Sch. of E.
Binns, F. W., B.S. Tufts, M.S. Purdue (E. Drawing) Instr.

English Lang. and Lit.

Trueman, A. W., M.A. Ox. Joseph Allison Prof.
Gundy, H. P., M.A. Tor. Asst. Prof.
1 Asst.

French

Laidlaw, G. N., B.A. Ox. Prof.
Hamilton, Jean, Ph.D. Paris Tutor.
2 Assts.

Geology

McKiel, Prof. H. W. Lectr.
Ferguson, D. M., B.A. Instr.

German

Hübener, G., Ph.D. Bonn Prof.

History

Stanley, G. F. G., M.A., B.Litt., D.Phil. Ox. Prof.

Home Economics, v. School of Home Econ., *infra*

Hygiene

Gass, C. L., B.A., M.D., C.M. Dal. Lectr.

Mathematics

McEwen, W. H., M.Sc. Sask., M.A., Ph.D. Minn. Prof.
Nickerson, J. L., M.A. Dal., Ph.D. Princet. Asst. Prof.

Music, v. Conservatory of Music, *infra*

New Testament Exegesis

Brecken, Rev. E. R., M.A., D.D. Prof.

Philosophy

Krug, Rev. C. A., M.A. Tor., B.D. Vict. Massey Prof.
2 Assts.

Physics

MacGregor, D. G., M.A. Ox. Prof.
Nickerson, J. L., M.A. Dal., Ph.D. Princet. Asst. Prof.
Geldart, Ll. P., B.A. Instr.
Soley, R., B.Sc. Instr.
Watters, J. A. Instr.

School of Home Economics

Runciman, Doris, B.S., M.A. Col. Director.
Cooke, Ruth H., B.A. Tor. Instr.
Garrett, Mrs Mabel (Clothing) Instr.
2 Assts.

Conservatory of Music

Hamer, H. S., F.R.C.O. Director and Prof. of Organ and Harmony.
Brunton, J. N., Dip.Stern Cons. Berlin (Piano) Prof.
Peake, Ethel (Voice) Instr.
Smith, Clara S. (Violin) Instr.
3 Assts.

School of Fine Arts

Royle, S., R.B.A., A.R.W.A., A.R.C.A. Director and Prof. of Drawing and Painting.
McLeod, Elizabeth (Design) Asst.
McKiel, Christian H. (Crafts) Asst.
Hart, Sarah S. (Wood Carving) Asst.

GENERAL INFORMATION

Mount Allison University was founded as a degree-giving body in 1858 under the name "Mt. Allison Wesleyan College." For early history, see *Yearbook*, 1929.

The UNITED CHURCH of Canada controls the administration on strictly non-sectarian principles; many students belong to other religious denominations.

LIBRARY, 40,000 vols. Engineering WORKSHOPS with gasoline engine, etc.

FACULTIES. Arts, Science, Engineering.
School of Home Economics, Conservatory of Music, School of Fine Arts.

DEGREE COURSES. 5 yrs., B.Mus.; 4 yrs. (from "Junior" Matricn.), B.A., B.Sc., B.F.A. "Senior Matricn." Certifs. (*e.g.* N.S. Provl. Educn. Dept., grade A) admit to 2nd yr. of B.A. or B.Sc. course. Diplomas from Prince of Wales Junior Coll. and Memorial College, Newfoundland, admit to 3rd yr.

HIGHER DEGREES. Open to B.A. with Hons. of 1 yr.'s standing, M.A.; to B.Sc. with Hons. of 1 yr.'s standing, M.Sc. Honorary: LL.D., D.C.L., D.Litt., D.D.

CERTIFICATES. Finance and Commerce, 2 yrs.; Secretarial, 3 yrs. Students taking Certif. in Applied Sci. (3 yrs.' course) are admitted without examn. to the N.S. Tech. Coll. (*see* p. 444).

FEES. Tuition: Arts or Science, $150 p.a. for 5 subjects (lab. fees additional $6–$14 p.a. per subject); Engin., $165–$180 p.a. Registration: $6 p.a.

RESIDENCE. Accommodation in the Univ. for 220 men and 135 women. Board and room, $250 p.a. General Fee, $35 p.a., covering concerts and lectures, rink and gymnasium, reading-room and library, etc.

PUBLICATIONS. *Calendar* (June); *Argosy* (students'), weekly, and *Mt. Allison Record*, monthly; the Webster and the Wood lectures.

THE YEAR 1937–38

BENEFACTIONS. Estate of Ambrose Bent, bequest of $10,000; estate of Elizabeth Lovitt, bequest of $1000.

VISITS. During the yr. there were visits and addresses from W. B. Brander, Secretary, Universities Bureau of the British Empire, Albert Mansbridge, London, K. S. Bernhardt, Univ. of Toronto, B. A. Fletcher, Dalhousie Univ., and a group of educationists from England. There was also an exchange for a few days of instructors between Saint John Summer School and that at Mount Allison. Dr. Gustav Hübener, former Professor at Bonn Univ., has, through courtesy of Carnegie Corporation, been in residence during the yr. as a special lecturer.

HONORARY DEGREES. *LL.D.*—M. A. Cartwright, Director of Adult Education for United States; E. A. Corbett, Director of Adult Education for Canada; A. Mansbridge, President of World Association of Adult Education; C. G. Mosher, Supervisor of Schools, Truro, N.S. *D.D.*—Rev. H. B. Clarke, Kingston, Ontario. *D.Litt.*—Clara Dennis, Author, Halifax, N.S.

STUDENTS. Full-time: 472, including 7 graduates. Part-time: 62. Extension Department, 48. Summer School, 160.

DEGREES. B.A., 60; M.A. 4; B.Sc., 16; M.Sc., 1; B.Sc. (Home Ec.), 14; Mus.Bac., 1.

CERTIFICATES. Engineering, Art, Music, Education, etc.: 28.

UNIVERSITY OF NEW BRUNSWICK, FREDERICTON

Founded 1859

VISITOR ON BEHALF OF H.M. THE KING—THE LIEUT.-GOVERNOR OF NEW BRUNSWICK.

PRESIDENT—C. C. JONES, LL.D. Tor., D.C L. Acadia, MA.., Ph.D.

REGISTRAR—J. W. SEARS, B.A. Ox.

TEACHING STAFF

Biology [Prof.

Argue, C. W., B.A., M.Sc. McGill.

Chemistry

Toole, F. J., Ph.D. McGill, M.Sc. Prof.

Wright, R. H., Ph.D. McGill, B.A. Asst. Prof.

Classics and Anc. Hist.

Smethurst, S. E., B.A. Camb. Prof.

Economics and Politics

Keirstead, B. S., B.A. Ox. Prof.

Engineering

Turner, E. O., S.B. Mass. I. Tech. (Civil E.) Prof.

Stephens, J., M.A., M.A.I. Dub., M.I.C.E.I., D.Sc. (Mech. E. and Drawing) Prof.

Moore, J. H., S.M. Mass. I.Tech., B.Sc. (Civic Eng.) Assoc. Prof.

Engineering, Electrical

Baird, A. F., M.Sc. Prof.

English

McPherson, M., M.A. Edin. Prof.

Forest Engineering

Flieger, B. W., B.Sc. Prof.

Forestry

Gibson, J. Miles, B.Sc. Prof.

French and German

Pugh, R. W. B., B.A. Ox Prof.

Geology

Wright, W. J., Ph.D. Yale, F.R.S.C. Prof.

McKenzie, G. S., Ph.D. Tor. Assoc. Prof.

History

Bailey, A. G., Ph.D. Tor., B.A. Prof.

Law

Sears, J. W., B.A., B.C.L. Ox. (Contracts, Real Property Torts and Crimes) Lectr.

At St. John

Baxter, Hon. J. B. M., C.J., D.C.L. Dean of Faculty.

McInerney, H. O., M.A., B.C.L., LL.D. Prof.

10 Part-time Lectrs.

Mathematics

The President Prof.

Jones, W. G., B.Sc. Asst. Prof.

Philosophy and Education

Keirstead, W. C., Ph.D. Chic., M.A., D.C.L. Acadia Prof.

Physics

Priestman, B., B.A. Camb., M.Sc., Ph.D. McGill Prof.

Walker, G., B.Sc. Demr.

GENERAL INFORMATION

The " College of New Brunswick " was incorporated in 1800 by Provincial Charter, re-incorporated in 1828 by Royal Charter as " King's College," and merged in 1859 in the Univ. of N.B. established in that year. A Faculty of Law was established in 1923 in St. John, taking over, with some changes, the work of the former King's College Law School. The Provincial Govt. appoints the President and a majority of the governing body, called the Senate, of which the Chief Supt. of Education for the Province is *ex officio* a member. The annual grant from Provincial revenues is $25,000.

LIBRARY: 40,000 vols. MUSEUMS: Natural History (rich in birds). LABORATORIES: Bot., Chem., Engin., Geol., Phys., Psych. OBSERVATORY: Telescope with 6" clear aperture.

DEPARTMENTS. Arts and Science, Applied Science (Engineering and Forestry), Law.

DEGREE COURSES. 4 yrs. (from " Junior " Matricn.), B.A., B.Sc. (in Pure Science, Engin. or Forestry). 3 yrs., B.C.L. The " Senior " Matricn. (or equivalent) Certif. admits to the 2nd year.

HIGHER DEGREES. Open to B.A. of 2 yrs.' standing, M.A.; to B.Sc. in Pure Science of 2 yrs.', in Engin. or For. of 5 yrs.' standing, M.Sc.; D.Litt., D.Sc., LL.D. (Hon.).

FEES. Tuition, annual: Arts, $100; Pure Science, $120; Engin. or Forestry, $120; Law. $150.

RESIDENCE. Lady Beaverbrook's Building for men students. Board and lodging, $7.75 to $11 per week.

STUDENT HEALTH. Tuberculosis survey of students made in the Autumn.

SCHOLARSHIPS. Rt. Hon. Lord Beaverbrook Schols., 7 of $500 each for 4 yrs.; Ralph St. John and Charles E. Freeze Schol., $1000.

PUBLICATIONS. *Calendar* (January); *Brunswickan* (Students' weekly).

THE YEAR 1937–38

BENEFACTIONS. Provincial Government, additional assistance, $16,000; Rt. Hon. Lord Beaverbrook, $15,000 for repairs and improvements to Lady Beaverbrook's Building.

NEW DEPARTMENTS AND POSTS. Chair of History; Associate Professorship in Civil Engineering.

EXTRA-MURAL WORK. Summer School. Attendance, 123.

RESIGNATION. Prof. R. E. D. Cattley, on appt. to Dept. of Classics, Dalhousie Univ.

DEATH. Sir Douglas Hazen, Dean of Fac. of Law.

HONORARY DEGREES. *LL.D.*—Ven. Archdeacon Marshall Everett Mott; John B. McNair, Attorney-General of New Brunswick.

STUDENTS. Full-time: 327.

DEGREES. B.A., 22; M.A., 3; B.C.L., 11; B.Sc., 11; M.Sc., 1; B.Sc. in Civil Engineering, 8; B.Sc. in Electrical Engineering, 5; B.Sc. in Forestry, 3.

UNIVERSITY OF OTTAWA

Founded 1866

VISITOR—Col. Hon. H. A. BRUCE, LL.D. Tor., Western, Qu., M.D. Tor., F.R.C.S., Lieut.-Governor of Ontario.

APOSTOLIC CHANCELLOR—Most Rev. G. FORBES, D.D., Archbishop of Ottawa.

RECTOR—Very Rev. J. HEBERT, O.M.I., LL.D. Québ., M.A., S.T.L., Ph.D.

VICE-RECTORS—Rev. A. CARON, O.M.I., D.Ph., D.Th., D.C.L.; Rev. H. POUPART, O.M.I., D.Ph., D.Th. Rome.

SECRETARY—Rev. L. P. CORNELLIER, O.M.I., D.Ph., D.Th. Rome.

TREASURER—Rev. I. PIGEON, O.M.I., B.A.

LIBRARIAN—Rev. A. MORISSET, O.M.I., B.Bibl.Sc., B.A., L.C.L.

DIRECTOR OF ATHLETICS—Rev. J. CASTONGUAY, O.M.I.

DIRECTOR OF EXTRA-MURAL RELATIONS—Rev. H. MORINEAU, O.M.I.

PROFESSORS

Biology

LeBel, M. W., B.A., L.Ph., M.D. McG., C.M., L.M.C.C.

Chemistry

Caron, Rev. D., O.M.I., B.A., L.Ph., L.Th.

Poupart, Rev. H., O.M.I., D.Ph., D.Th. Rome.

Renaud, Rev. E., O.M.I., L.Sc. Un. Cath. Lille, B.A., L.Ph., D.Sc., F.C.I.C.

Classics : Greek

Pelletier, Rev. A., O.M.I., M.A.

Classics : Latin

Royal, Rev. E., O.M.I., L.Litt. Quebec, M.A., L.Ph., D.Th.

Marcotte, Rev. F.-X., O.M.I., D.Ph., D.Th. Rome.

Commerce

Bélanger, H.-H.

Sénécal, Rev. R., O.M.I.

Vachon, J.-L., B.A., B.Sc.

English Literature

Bradley, Rev. F., M.A., D.Ph., L.C.L.

Buxton, G., D.Litt., Sorbonne, M.A.

French Language

Guindon, Rev. A., O.M.I., B.A., L.Ph., L.Th.

Shevenell, Rev. R.-H., O.M.I., B.A., L.Ph.

French Literature

Leblanc, Rev. C., O.M.I., B.A., D.Ph., L.Th.

Marion, S., M.A., D.Litt. Paris and Montreal, L.Ph.

Royal, Rev. E., O.M.I., L.Litt. Québ., M.A., L.Ph., D.Th.

Geology

Castonguay, Rev. J., O.M.I.

Cunningham, E. J., M.A.

History

Bradley, Rev. F., M.A., D.Ph., L.C.L.

Buxton, G., D.Litt. Sorbonne, M.A.
Guay, Rev. A., O.M.I., B.A., L.Ph., L.Th., D.C.L.
Lanctôt, Major G., B.L., LL.M. Ox., D.Litt. Paris, LL.D. Ottawa, K.C.
Thivièrge, Rev. E., O.M.I., B.A., L.Ph., B.Th.

Italian

Pagano, Rev. S., O.M.I., D.Ph., L.Th., L.S.Sc.
Royal, Rev. E., O.M.I., L.Litt. Québ., M.A., L.Ph., L.Th.

Law, Commercial

Trudeau, Rev. R., O.M.I., B.A. Montr., L.Ph.

Law, Constitutional

Dufour, Rev. P., O.M.I., B.A., L.Ph., B.Th.
Ollivier, M., B.A., LL.D., Montr., K.C.

Mathematics

Dubé, Rev. H., O.M.I., D.Sc., D.Ph., D.Th. Rome.
Poupart, Rev. H., O.M.I., D.Ph., D.Th. Rome.
Vachon, J.-L., B.A., B.Sc.

Music and Elocution, v. *infra*

Nursing, v. *infra*

Philosophy, v. also *infra*

Cornellier, Rev. L.-P., O.M.I., D.Ph., D.Th. Rome, B.A., B.C.L.
Gendron, Rev. J., O.M.I., B.A., D.Ph., D.Th.
Côté, Rev. A., O.M.I., B.A., B.Ph., L.Th.
Shevenell, Rev. R., O.M.I., B.A., L.Ph.
Saint-Denis, Rev. H., O.M.I., B.Ped. Tor., D.Ph., D.Th. Rome.

Philosophy, History of

Trudel, Rev. R., O.M.I., B.A., D.Ph., L.Th.

Physics

Dubé, Rev. H., O.M.I., D.Sc., D.Ph., D.Th. Rome.

Physiology

Marcotte, Rev. F.-X., O.M.I., D.Ph., D.Th. Rome.

Political Economy

Cousineau, R., B.A., L.Com.Sc. Montr., L.Pol.Sc. Paris.
Dufour, Rev. P., O.M.I., B.A., L.Ph., B.Th.

Political Science, v. *infra*

Pyschology, Experimental

Leblanc, Rev. R., O.M.I., D.Ph., D.Th.
Sauvé, Rev. G., O.M.I., D.Soc.Sc. Montr., D.Ph., D.C.L.
Shevenell, Rev. R., O.M.I., B.A., L.Ph.

Public Administration

Guay, Rev. A., O.M.I., B.A., L.Ph., L.Th., D.C.L.

Public Speaking : English

Danis, Rev. L., O.M.I., M.A., D.Ph., L.Th., B.C.L.
Hayes, H. L.

Public Speaking : French

Guindon, Rev. A., O.M.I., B.A., L.Ph., L.Th.
Beaulne, L.

Religious Knowledge

Castonguay, Rev. J., O.M.I.
Cornellier, Rev. L.-P., O.M.I., D.Ph., D.Th. Rome, B.A., B.C.L.
Gendron, Rev. J., O.M.I., B.A., D.Ph., D.Th.
Marcotte, Rev. F.-X., O.M.I., D.Ph., D.Th. Rome.

Canon Law, Faculty of

Caron, Rev. A., O.M.I., D.Ph., D.Th., D.C.L.
Charland, Rev. R.-M., O.P., D.C.L.

Guay, Rev. A., O.M.I., B.A., L.Ph., L.Th., D.C.L.
Latrémouille, Rev. R., O.M.I., D.Ph., D C L.
Ollivier, M., B.A., LL.D. Montreal, K.C.
Sauvé, Rev. G., O.M.I., D.Sc.Soc. Montr., D.Ph., D.C.L.

Philosophy, Faculty of

Cloutier, Rev. G., O.M.I., B.A., D.Ph., L.Th.
Cornellier, Rev. L.-P., O.M.I., D.Ph., D.Th. Rome, B.A., B.C.L.
Ducharme, Rev. S., O.M.I., D.Ph., B.Th.
Laframboise, Rev. C., O.M.I., D.Ph., D.Th. Rome.
Leblanc, Rev. R., O.M.I., D.Ph., D.Th.
Normandin, Rev. R., O.M.I., D.Ph., L.Th. Rome.
Pelletier, Rev. S., O.M.I., D.Ph., B.Th. Rome.
Saint-Denis, Rev. H., O.M.I., B.Ped. Tor., D.Ph., D.Th. Rome.
Sauvé, Rev. G., O.M.I., D.Sc.Soc. Montr., D.Ph., D.C.L.
Shevenell, Rev. R., O.M.I., B.A., L.Ph.
Trudel, Rev. R., O.M.I., B.A., Ph.D., L.Th.
Tremblay, J.-J., M.A., D.Ph.

Theology, Faculty of

Caron, Rev. A., O.M.I., D.Ph., D.Th., D.C.L.
Caron, Rev. V., O.M.I., D.Ph., D.Th. Rome.
Deschatelets, Rev. L., O.M.I., D.Th,
Devy, Rev. V., S.M.M., D.Ph., D.Th. Rome.
Guay, Rev. A., O.M.I., B.A., L.Ph., L.Th., D.C.L.
Pagano, Rev. S., O.M.I., D.Ph., L.Th., L.H.Sc. Rome.
Poulet, Rev. D., O.M.I., L.H.S. Rome, D.Th.
Matte, Rev. H., O.M.I., D.Ph., D.Th. Rome.
Simard, Rev. G., O.M.I., D.Ph., D.Th.
Thivièrge, Rev. E., O.M.I., B.A., L.Ph., B.Th.
Tremblay, Rev. R., O.P.

Music and Elocution, School of

Latour, Rev. C., O.M.I., G.S.C. Paris, B.A., L.Ph., L.Th., L C.L. Director and Prof.
Caplette, D.
Landry, Hélène, G.E.N.M., G.I.M. G.C.M. Paris.
Larose, P., G.E.N.M. Paris.
Soublières, Marguerite

Nursing, School of

Gravel, Rev. J., O.M.I., B.A. Montr., L.Ph., B.Th., Director.
Madeleine de Jésus, Rev. Sr., G.N.C., R.N., Director of Studies.
Domitille, Rev Sr., G.N.C., R.N., Director of Nurses.

Political Science, School of

Sauvé, Rev. G., O.M.I., D.Sc.Soc. Montr., D.Ph., D.C.L., Director.
Mayrand, L., B.A., L.Sc.S. Paris, LL.D. Montr.
Bourgeois, Hon. Senator C., B.A., Montr., LL.D.
Cousineau, R., B.A., L.Com.Sc. Montr., L.Pol.Sc. Paris.
Couture, E., M.D., C.M., L.M.C.C. Montr.
Guay, Rev. A., O.M.I., B.A., L.Ph., L.Th., D.C.L.
St.-Amour, L.-P.
Bergeron, D., O.M.I., B.A., L.Ph., L.Th., L.C.L., L.Dip.Sc. Secretary.

Normal School

Lamoureux, Rev. R., O.M.I., D.Ph., L.Th., Principal. 8 Profs.

GENERAL INFORMATION

The " College of Bytown," incorporated in 1849, changed its name in 1861 to " College of Ottawa," and became in 1866 the Univ. of Ottawa with power to grant degrees. By a papal brief dated Feb. 5, 1889, it was accorded the status of a Catholic University. The Univ. is conducted by the Oblate Fathers of Mary Immaculate. Special aim : to provide students of English or French descent with a thorough bilingual education.

AFFILIATED INSTITUTIONS. Congrégation de Notre-Dame, Ottawa ; Convent of Our Lady of the Sacred Heart, Ottawa ; Mother-House of the Grey Nuns of the Cross, Ottawa ; Convent of Notre-Dame de Lourdes, Ottawa ; Mathieu College, Gravelbourg, Saskatchewan ; The Grand Seminary, Ottawa ; The Vianney School, Ottawa ; Sacred Heart College, Regina, Sask. ; Juniorate of St. John the Apostle, Edmonton, Alta. ; Collège Thévenet, Gravelbourg, Sask. ; Ottawa General Hospital (Training School for Nurses) ; St. Teresa Academy, Medicine Hat, Alta. ; Convent of the Sisters of Providence of St. Brieux, Prud'homme, Sask.

LIBRARY, 38,000 vols. The Parliament Library, to which students have access, has 300,000 vols. MUSEUMS : In the Univ.—Geol. and Natural Hist. ; access also to Geol. Survey Dept. Museum. The Dominion Observatory and Canadian Fisheries Museum are located in Ottawa. LABORATORIES : Chem., Phys., Biol.

FACULTIES. Theology (Dean : Rev. G. Simard), Canon Law (Dean : Rev. A. Caron), Philosophy (Dean : Rev. G. Sauvé), Arts (Dean : Rev. H. Poupart). Incorporated in the Univ. are Schools of Music and Elocution, of Nursing, of Political Science, of Catholic Action, and a Normal School.

DEGREES, ETC. B.A., B.L., B.Sc., B.Com., B.Sc., in Nursing ; M.A., B.L. (Lit.), B.Ph., B.Th., D.D., LL.D. (Hon.), L.Ph., D.Ph., L.Th., B.C.L. (Canon Law), L.C.L., D.C.L., D.Sc., L.Litt., D.Litt. The Arts course leading to the B.A. or B.L. covers 4 yrs., the work of the Fifth to the Eighth " Forms," that of the first 4 Forms being preparatory to matricn. Extra-mural students may appear for examn. without attending classes in the Univ. for more than 1 yr. The B.Th. and the L.Th. involve respectively 2 and 4 yrs.' study of Theology after the completion of a classical course including 4 yrs. of special philosophy ; the B.Ph. and the L.Ph. respectively 2 and 3 yrs.' study after the B.A. Marks assigned for the exercises of students are read in public once a month, and monthly reports are sent to parents.

COURSES OF STUDIES. High School (classical or commercial), Arts Course (complete), Commerce (leading to B.Com.), Normal School (for teachers in the bilingual schools of Ontario), Pre-Medical Course, Music (leading to the certificate of B.M., L.M., D.M.), Social Science (3-yr. course), Philosophy (4-yr. course for the degree of D.Ph.), Canon Law (3-yr. course for the degree of D.C.L.), Theology (5-yr. course for the degree of D.D.), Evening Courses (for High School and Arts subjects), Summer Courses (in Pedagogy, Gregorian Chant, etc.). Graduate courses : two yrs. for M.A. Degree, and 3 yrs. for D.Ph.

FEES. For Tuition only, $100 p.a. For Board and Residence and Tuition, $300 to $375 p.a. Degrees from $5 to $75.

RESIDENCE. Students whose homes are not in Ottawa are required to live in the Univ. building. Accommodation for 300.

PUBLICATIONS. Revue de l'Université d'Ottawa (quarterly, $2.60 a year) ; Senate Publications of the U. of O. ; Calendar of the High School Department ;

Calendar of the Faculty of Arts; Announcement of the Canonical Faculties; University of Ottawa Normal School Year Book; Examination Papers in Arts (10 cts. for each set); Annuaire du cours d'immatriculation; Annuaire de la faculté des arts; Programme d'études des facultés canoniques; Questions d'examens d'immatriculation et de la faculté des arts.

THE YEAR 1937–38

NEW BUILDINGS. University Seminary for students of eccles. Facs. of the Univ.; House of Philosophy, for lay students of Fac. of Philos.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. Marie-Victorin (Montréal), "Le Jardin Botanique de Montréal et l'éducation"; Prof. Louis-Marie (Montréal), "Les mécanismes héréditaires"; Prof. de Montléon (Paris), "La poésie et la philosophie."

RESIGNATIONS. Prof. A. Hamel (Philosophy); Prof. B. Mailloux (Theology).

DEATH. Prof. G. O. Julien (Commerce).

HONORARY DEGREES CONFERRED. *LL.D.*—Hon. Senator C. Bourgeois, Legist; Rev. Fr. Patrick J. Kelley, Social Service; W. Perkins Bull, Philanthropist; Antonio Prince, Social Service.

STUDENTS. Full-time: 1523, including 90 graduates. Part-time: 250, including 53 graduates.

DEGREES. B.D., 14; L.D., 2; D.D., 1; B.A., 54; M.A., 8; B.Sc., 5; B.Com.Sc., 7; B.Ph., 12; L.Ph., 7; D.Ph., 3; L.C.L., 2; L.Pol.Sc., 2.

QUEEN'S UNIVERSITY, KINGSTON, ONTARIO

Founded 1841

CHANCELLOR—JAMES RICHARDSON, B.A., LL.D.

PRINCIPAL AND VICE-CHANCELLOR—R. C. WALLACE, M.A., Ph.D. LL.D., D.Sc.

RECTOR—Hon. N. McL. ROGERS, M.A., B.Litt., B.C.L. Ox. LL.D. McM., M.P.

VICE-PRINCIPAL AND TREASURER—W. E. McNEILL, M.A., Ph.D., D.C.L., LL.D.

REGISTRAR—JEAN I. ROYCE, M.A.

LIBRARIAN—E. C. KYTE.

TEACHING STAFF

Accounting

Walker, C. E., B.Sc. (Acc.), C.A. (v. also Com.) Prof.
Smails, R. G. H., B.Sc. (Econ.) Lond., A.C.A. (v. also Com.) Prof.
Currie, A. W., M.B.A. Harv., B.A., B.Com. Lectr.
Macpherson, L. G., B.A. Brandon, C.A. Instr.
1 Demr.

Anatomy, v. also *infra* Med.—Surg.

Matheson, D. C., M.B. Prof.
Salsbury, C. R., M.D., C.M. Asst. Prof.
Harbeson, A. E., B.A., M.D., C.M. Demr.

Banking

Knox, F. A., B.A. (v. also Pol. and Econ. Sci.) Prof.

Biochemistry v. *infra*, Medicine

Biology

Earl, R. O., M.Sc., Ph.D. Chic., B.A. Prof.
Stanley, John, Ph.D. Minn., M.A. (Botany) Assoc. Prof.
Krotkov, G., M.A., Ph.D. Tor., B.Sc. Prague Asst. Prof.
Curran, H. W., M.A. Mich., A.B. Hobart Coll. Lectr.
3 Assts.

Chemistry, v. also Engin.

Neish, A. C., M.A., Ph.D. Col., B.A. Prof.
McRae, J. A., Ph.D. Manc., M.A., F.I.C. Prof.
Logan, J. F., M.A. Acadia, Ph.D. Yale, F.C.I.C. (Biochem.) Assoc. Prof.
Frost, G. B., B.A. Tor., Ph.D. Cal. Assoc. Prof.
Munro, L. A., M.A. Dal., Ph.D. McG., F.C.I.C. Assoc. Prof.
Dorrance, R. L., M.A. Tor., F.C.I.C. Asst. Prof.
Taylor, E. G., S.C.M. Brown, B.Sc., Ph.D. Wales, A.I.C. Lectr.
Martin, J. A., M.A. Instr.
12 Tutors.

Classics

Tracy, H. L., B.A. Tor., Ph.D. Chic. Prof.
Law, L. E , B.A. Lond., M.A. Ox. (Anc. Hist.) Assoc. Prof.
Macdonnell, Mary L., M.A. Asst. Prof.
Day, A. A., M.A. Tor., Ph.D. Lond. Asst. Prof.
Shurtleff, H. S., Ph.D. Yale, B.A. (Latin) Lectr.

Commerce and Business Administration, v. also Accounting

Mackintosh, Prof. W. A., Ph.D. Harv., M.A., F.R.S.C. (v. also Pol. & Econ. Sci.) Director.
Smails, R. G. H., B.Sc. (Econ.) Lond., A.C.A. Prof.
Walker, C. E., B.Sc. (Acc.), C.A. Assoc. Prof.
McDougall, J. L., M.A. Tor. (also Pol. and Ec. Sci.) Asst. Prof.
Cameron, J. C., M.Com., Head Indust. Relns. Section
Currie, A. W., M.B.A. Harv., B.A., B.Com. (Marketing) Lectr.
Macpherson, L. G., B.A. Brandon, C.A. Instr.

Economics, v. Polit. and Econ. Sc.

Engineering, v. also Mining E.

Macphail, A., C.M.G., D.S.O., B.Sc., LL.D. (General E.) Prof.
Arkley, L. M., M.Sc. (Mech. E.) Prof.
Goodwin, L. F., Ph.D. Heid., A.C.G.I., F.I.C. (Indust. Chem. and Chem. E.) Prof.
Wilgar, W. P., D.S.O., B.Sc. (Civil E.) Prof.
Baty, J. B., B.Sc. Texas (Civil E.) Asst. Prof.
Jemmett, D. M., M.A., B.Sc. (Elect. E.) Prof.
Ellis, D. S., D.S.O., M.A., B.Sc., M.C.E. (Civil E.) Prof.
Jackson, A., B.Sc. (Draughting) Prof.
Rutledge, L. T., B.A.Sc. Tor. (Mech. E.) Assoc. Prof.
Low, R. A., B Sc., M.C.E. (Civ. E.) Asst. Prof.
Stewart, H., B.Sc., M.S. (Elect. E.) Asst. Prof.

Lecturers

Styles, H. J., B.Sc. (Draughting).
Huggins, M. W., M.A.Sc. Tor., (Civil E.) Lectr.
Pollock, H. S., M.Sc. (Elec.E.).
Conn, H. G., B.Sc. (Mech.E.).
Revell, G., M.Sc., Mass.Inst. Tech., B.Sc. (Chem. E.) Lectr.
Dolan, M. A., B.Sc. (Hydraulics) Demr.
Baiden, A. C. (Shop work).
Connolly, W. E. (Shop work).
9 Tutors, 7 Demrs., 3 Instrs.

English

Clarke, G. H., M.A., D.Litt. McM., F.R.S.C. Prof.
Roy, J. A., M.A. Edin. Prof.
Alexander, H., M.A. Liv. Prof.
Gordon, Wilhelmina, M.A. Assoc. Prof.
Angus, W., B.S. Bowdoin, Ph.D. Cornell Lectr.
Vincent, C. J., B.A. Western, A.M. Harv. Lectr.
McCourt, E. A., B.A. Alberta, Ox. Lectr.
8 Tutors.

French

Campbell, P. G. C., M.A. Ox., D. de l'U. Paris Prof.
Tirol, M., O.I.P., L. ès L. Paris, Ph.D. Lond. Assoc. Prof.
Conacher, W. M., B.A. Lond., D. ès L. Montr. Assoc. Prof.
Walpole, H., M.A. Camb. Lectr.
McConnell, Mme. Jeanne M., B.S., C.A.P. Instr.
2 Tutors.

Geology

Baker, M.B., B.A., B.Sc., F.G.S.A., F.R.S.C. Prof.

Bruce, E. L., M.A., Ph.D. Col., B.A., B.Sc., F.R.S.C., F.G.S.A.
Miller Memorial Research Prof.
Rose, B., Ph.D. Yale, B.Sc., F.R.S.C., F.G.S.A. Prof.
Buerger, N. W., S.B., S.M., Ph.D. Mass. Inst.Tech. Lectr.

German

Henel, H., Ph.D. Frankf. Prof.
Laird, Hilda C., B.A. Asst. Prof.
Gilmour, S. M., B.A. Manit., B.D. Union Theol. Seminary Lectr.

Hebrew, v. Semitic Langs.

History

Trotter, R. G., B.A. Yale, A.M., Ph.D. Harv. (Canadian and Colonial H.) Douglas Prof.
Prince, A. E., M.A. Manc., B.Litt. Ox. (English H.) Prof.
Harrison, W. E. C., M.A. Lond. (on leave) Asst. Prof.
Masters, D. C., M.A. Tor. Lectr.
Graham, G., Ph.D. Camb., M.A. Asst. Prof.
2 Fellows.

Italian, v. Spanish.

Mathematics

Matheson, J., M.A., Dean of the Faculty of Arts Prof.
Gummer, C. F., M.A. Ox., Ph.D. Chic. Prof.
Miller, N., Ph.D. Harv., M.A. Prof.
Johnston, K. P., M.A., B.Sc. Assoc. Prof.
Edgett, G. L., M.A. Mt. All., Ph.D. Ill. Asst. Prof.
Stewart, J. D., M.A. Lectr.
Watts, Rev. J. O., M.A. Camb. Lectr.
1 Instr., 1 Tutor.

Medicine, v. *infra*

Metallurgy

Lord, T. V., B.Sc. Prof.
Carson, O. A., M.A., B.Sc., Ph.D. Col. Asst. Prof.

Mineralogy

Hawley, J. E., Ph.D. Wis., M.A., F.G.S.A., F.R.S.C. Prof.
1 Demr.

Mining Engineering

Graham, S. N., B.Sc. Prof.

Philosophy

Humphrey, G., M.A. Ox. Ph.D. Harv. Charlton Prof.
Vlastos, G., Ph.D. Harv. Assoc. Prof.
Estall, H. M., M.A. McGill, Ph.D. Cornell Lectr.
1 Tutor.

Physics

Clark, A. L., B.Sc. W.P.I., Ph.D. Clark, F.R.S.C. Dean, Fac. Appl. Sc. Prof.
Harkness, H. W., M.Sc., Ph.D. McG. Asst. Prof.
Gray, J. A., O.B.E., D.Sc. Manc., F.R.S., F.R.S.C.
Chown Research Prof.
Robertson, J. K., M.A. Tor., F.R.S.C. Prof.
Flammer, E., B.Sc. Calif., Ph.D. Harv. (Math. Phys.) Prof.
Watson, E. E., M.Sc. McG., Ph.D. Camb. Asst. Prof.
Sargent, B. W., Ph.D. Camb., M.A., Asst. Prof.
Cave, H. M., Ph.D. Camb., M.A. Asst. Prof.
2 Demrs., 1 Tutor, 1 Asst.

Physiology

Melvin, G. S., M.D. Aberd. Prof.
Ettinger, G. H., B.A., M.D., C.M. Prof.
2 Technicians.

Political and Econ. Science

Mackintosh, W. A., Ph.D. Harv., M.A., F.R.S.C.
Macdonald Prof.
Curtis, C. A., B.A. Tor., Ph.D. Chic. (Econ.) Prof.
Knox, F. A., B.A. (Econ.) Prof.

Corry, J. A., B.C.L. Ox., LL.B. Sask., LL.M. (Politics). Asst. Prof.
McDougall, J. L., M.A. Tor. (also Comm.) Asst. Prof.
4 Tutors.

Semitic Langs. and Lit.
Kent, Rev. H. A., M.A. Dal., D.D. Montr. (Hebrew and Biblical Lit.) Prof.

Spanish and Italian.
Brovedani, J. H., D. ès L. Rennes (Span. & Ital.) Prof.
Minor, A. B., M.A. (Span.) Lectr.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Angrove, H. S., M.D., C.M. Lectr.
Campbell, W. A., M.D., C.M. Lectr.

Bacteriology
Reed, G. B., M.A., B.Sc., Ph.D. Harv., F.R.S.C. Prof.
Orr, J. H., M.D., C.M., F.R.C.P.C. Assoc. Prof.

Biochemistry
Sinclair, R. G., Ph.D. Rochester, B.A. Craine Prof.
1 Technician.

Embryology
Ettinger, G. H. (also Physiol.) Lectr.

Eye, Ear, Nose and Throat
Cays, F. A., M.D., C.M., F.R.C.S.C. (Ear, Nose, Throat) Prof.
O'Connor, C. E., M.D., C.M. Assoc. Prof.
Folger, H. P., B.A., M.D., C.M. (Eye) Asst. Prof.
O'Connor, F. X., M.D., C.M. Clin. Asst.

Gynæcology, v. Obstetrics and Gynæcol.

Med. Jurisprudence
Macdonnell, P. M., M.A., M.D., C.M. (also Med.) Lectr. & Historian.
Rigney, T. J., B.A., K.C. Lectr.

Medicine and Clin. Med.
Connell, W. T., M.D., F.R.C.P.C. Prof.
Gibson, W., M.D., F.R.C.P.C. (Med.) Assoc. Prof.
Hopkins, B. H., M.B. Tor. (Med.) Asst. Prof.
Connell, W. Ford, M.D., C.M., M.R.C.P., F.R.C.P.C. Assoc. Prof.
Third, J. R., B.A., M.D., C.M. Lectr.

Clin. Assistants
Delahaye, J. S., M.D., C.M. (also Prev. Med.)
Koster, B. M., M.D.C.M.
Tweddell, J. T., M.D., C.M.
Robinson, S., M.D., C.M.
Doyle, A. M., M.D., C.M.

Obstetrics and Gynæcology
Mylks, G. W., M.D., F.A.C.S., F.R.C.S.C. Prof.
McLeod, P. A., B.A., M.D., C.M., M.C.O.G. Asst. Prof.
O'Connor, F. J., M.D., C.M. (Obstet.) Asst. Prof.
Boyd, E. M., M.A., M.D., C.M. (Obstet.) Asst. Prof.
Mylks, G., B.A., M.D., C.M. Clin. Asst.
Huyck, P. H., M.D., C.M. (Obstet.) Clin. Asst.

Pathology
Miller, J., B.Sc., M.D. Edin., D.Sc. Birm., F.R.C.P. Edin. and Can., F.R.S.C. Prof.
Hay, W. D., M.A., M.D., C.M. (Lectr. in Clin. Microscopy) Assoc. Prof.
1 Fellow, 1 Asst.

Pediatrics

MacGregor, R. R., M.D., C.M., F.R.C.P.C. Prof.

Pharmacology and Therapeutics

Boyd, E. M., M.A., M.D., C.M. Douglas Prof.

Psychiatry

Clark, E. A., M.D., C.M. Prof.
Crawford, C. M., B.A., M.D., C.M. F.A.C.P. Lectr.
Cleland, C. A., M.D., C.M. Clin. Asst.

Psychology

Humphrey, G., M.A. Ox., Ph.D. Harv. Prof.
Crawford, C. M. (also Psychiatry) Lectr.

Public Health and Preventive Medicine

Wyllie, J., M.A., B.Sc., M.D. Glas., D.P.H. Camb. Arthur R. Elliott Prof.
Delahaye, J. S., M.D., C.M. Lectr.

Radiology and Physical Therapy

Jones, W. A., M.D. Western, F.R.C.P.C. Prof.
Burr, R. C., M.D., C.M., F.R.C.S. Edin. Lectr.

Surgery

Austin, L. J., M.Ch. Camb., F.R.C.S. Eng. and Can. Prof.
Etherington, F., C.M.G., M.D., F.R.C.S.C. Dean and Prof.
Sparks, J. F., B.A., M.D., C.M., F.R.C.S.C. (S. and Appl. Anat.) Assoc. Prof.
Keyes, S. J., M.D., C.M., F.R.C.S.C. Asst. Prof.
Berry, N. E., M.D., C.M. (Urology) Asst. Prof.
Houston, S. W., M.D., C.M., F.R.C.S. Edin. and Can. Asst. Prof.
Boucher, D. W., M.D., C.M., F.R.C.S. Ed. Lectr.
1 Fellow.

Extension and Extra-mural Work

Winter, Ross M., M.A. Director.

Art

Biéler, André Resident Artist.

Music

Harrison, F. Ll., Mus.D. Dub. Resident Musician.

Physical Education

Edwards, J. F., B.A. Instr. (Men).
Ross, Marion Instr. (Women).

AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE. Principal and Prof. of Hebrew and Old Test. Criticism and Exegesis, Rev. H. A. Kent, M.A., D.D. 3 other Profs.

GENERAL INFORMATION

Queen's College, Kingston, was founded by Royal Charter in 1841. For early history, see *Yearbook* for 1929.

The administration is vested in a Board of Trustees, composed of Chancellor, Principal, and Rector, representatives of the Council, Theological College, the Graduates and Benefactors, and 12 members selected by the Board.

LIBRARY (The Douglas Library). 175,000 vols., including many scarce books and early editions, especially of Canadian historical interest. The Reading Room has over 4000 vols. on open shelves and 700 periodicals. The Lorne Pierce collection of modern Canadiana and the Shortt-Haydon collection of pictures and portraits of Canadian interest are probably unexcelled. MUSEUMS: Herbarium (35,000 spec.), Geol., Mineral., Ethnol. (rich N. American Stone Age collection). LABORATORIES, including important School of

Mines buildings: Biol., Chem., Geol., Physics, Engin., Mining, Mechan., Metall., Mineral. OBSERVATORY with 6″ telescope. HOSPLS. available for clinics, 2 general, 1 for insane. Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for Geol. study.

FACULTIES. (1) Arts, (2) Applied Science, (3) Medicine. *Deans*: (1) Prof. J. Matheson (Maths.); (2) Prof. A. L. Clark (Physics); (3) Prof. F. Etherington (Surgery).

The Senate includes representatives of the Theological College also.

DEGREE COURSES. Four years, B.A., B.Com., B.Sc. (in Engin.—Civ., Mech., Elec., Mining and Metall., Chem. and Metall.—Analyt. and Applied Chem., Mineral. and Geol., or Physics); 6 yrs., M.D., C.M.

Combined courses: 6 yrs., B.A. and B.Sc.

HIGHER DEGREES. M.A. (1 yr.); M.Sc. (1 yr.); D.Sc. (2 yrs. after M.D.); Ph.D. (3 yrs.); B.D. (3 yrs.' course or its equivalent); Honorary: LL.D., D.D.

DIPLOMAS. Public Health (D.P.H.); Medical Radiology (D.M.R.). Testamur in Theology (3 yrs.).

FEES per annum (Class, Examn. and Student interests) in Arts, $148; Science, $230; Medicine, $220.

SCHOLARSHIPS AND FELLOWSHIPS. There are 164 scholarships for students of the Univ., varying in value from $20 to $900 p.a. The *Sir James Aikins Fellowship* in Canadian Hist., $400, open to distinguished students for further work in this subject. *George Christian Hoffmann Fellowships* (1) for Patholog. research, $800, (2) for further study in Surg., $600, both to enable holder to study in some inst. or Univ. in Europe or U.S.A. approved by Senate. For 4 Arts Research Fellowships and the *Milton Hersey Fellowship* in Chem. v. App. II.

RESIDENCE with rooms for 117 women and refectory accommodation for 180. Board and lodging, $8.25 to $9.00 a week. The Students' Union provides meals for men at $6 to $8 a week; accommodates about 200.

UNIVERSITY EXTENSION. Correspondence courses for teachers in schools and others unable to pursue full degree courses in Arts. All candidates for degrees must take in residence approximately half the courses required for the degree. Some of these may be covered at the Summer School of six weeks during July and August. The written examinations are the regular Univ. examinations. To assist students taking courses by correspondence, Extension Tutorial Classes, conducted by members of the staff and others, are held in various centres. Other activities organized by the Dept. are: Series of public lectures at Univ. Lecture-Discussion Clubs, conducted by members of the staff, organized in various cities and towns. Individual lectures by members of staff. Material provided to Study Groups. Course in Public Administration for Municipal Officials. Community Drama Conference. Short Drama Schools in various centres. Workers' Educational Association classes. Radio: regular programmes and the broadcast of addresses, Convocations and other functions over Univ. Radio Station CFRC.

Banking Courses leading to diplomas of Associate or Fellow of the Canadian Banking Association. Tuition by correspondence to members of Canadian Banks.

By agreement with the Ontario Institute of Chartered Accountants, Toronto, the tuition for their course, leading to the Chartered Accountant's certificate, is given by the University.

PUBLICATIONS. *Calendars* (by Faculties); *Queen's Quarterly*; *Queen's Univ. Journal*; *Queen's Review* (Gen. Alumni Assoc.).

THE YEAR 1937–38

BENEFACTIONS. Leonard estate, $36,500; estate of Isabella McIntyre, $10,000; Carnegie Corporation, $5000 for work in Music; Mr. W. W. King, $1000, and Mr. and Mrs. T. A. McGinnis, $2000, towards cost of new Sanitary Engineering Laboratory; Mrs. Florence M. Goodwill, $2500 for scholarship in Internal Medicine; Mrs. D. W. Boucher, $3400 Electric Organ; from Mrs. Frederick Etherington, $1500 Piano.

NEW BUILDINGS. Reconstruction of Carruthers Hall (Civil Engineering Building), Sanitary Engineering Laboratory, Hydraulics Laboratory, Craine Hall (Biochemistry).

NEW DEPARTMENTS AND POSTS. Department of Industrial Relations; Art; Music.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. Sir Frederick Banting (Univ. of Toronto), "Medical Research"; Prof. W. E. Blatz (Univ. of Toronto), "Heredity and Environment as illustrated by the Dionne Quintuplets"; Prof. Robert Chambers (Univ. of New York), "Cellular Architecture of the Body"; Dr. C. T. Currelly (Royal Ontario Museum, Toronto), "Chinese Art"; Prof. Barker Fairley (Univ. of Toronto), "German Literature"; Dr. W. E. Gallie (Univ. of Toronto), "Amputations"; President Henry Noble McCracken (Vassar College), "Recent Trends in Education in the United States."

RESIGNATIONS. Prof. W. L. Malcolm (Civil Engin.), on appt. as Director of Civil Engin., Cornell University; R. F. Legget (Civil Engin.), on appt. as Asst. Prof. of Civil Engin., Univ. of Toronto; Dr. C. F. Blackler (Public Health), appointed to Department of Public Health, Bermuda; Prof. S. C. Morgan (Elec. Engin.), on appt. as Assoc. Prof. of Elec. Engin., Univ. of British Columbia; Eric Duthie (English); R. W. Stevens (Drafting); Miss Ethelwynne Murphy (Physical Instructress for Women), appointed to teaching staff, Brantford Collegiate Institute.

DEATHS. Prof. George J. MacKay (Metallurgy); Prof. W. C. Baker (Experimental Physics); Emer. Prof. W. T. MacClement (Biology).

HONORARY DEGREES. *D.D.*—Rev. James Frazer Smith, Edmonton, Alberta. *LL.D.*—Sir Edward Beatty, Montreal; Lewis Williams Douglas, Montreal; President Franklin Delano Roosevelt, Washington, D.C.

STUDENTS. Full-time: 1796.

DEGREES. B.D., 3; Ph.D., 1; B.A. (Pass), 152; B.A. (Hons.), 68; M.A., 15; B.Com., 35; B.Sc. (Pass), 91; B.Sc. (Hons.), 12; M.Sc., 4; M.D. C.M., 52.

UNIVERSITY OF ST. FRANCIS XAVIER, ANTIGONISH, NOVA SCOTIA

Founded 1866

CHANCELLOR AND *ex officio* CHAIRMAN OF THE BOARD OF GOVERNORS—Most Rev. J. MORRISON, D.D., Ph.D., Bishop of Antigonish.

PRESIDENT—Very Rev. Prof. D. J. MACDONALD, Ph.D. Cath. U. Amer.

DEAN OF STUDIES—Rev. Prof. P. J. NICHOLSON, Ph.D. J. Hopkins.

REGISTRAR—Rev. Prof. J. C. CHISHOLM, M.A.

BURSAR—Rev. H. J. SOMERS, Ph.D. Cath. U. Amer.

LIBRARIAN—Rev. Prof. L. B. SEARS, M.A. Ox.

TEACHING STAFF

Biology

Chisholm, Rev. J. C., M.A. Prof.
Murphy, T. B., M.A., M.D., C.M. Dal. Assoc. Prof.
Morrison, M.B., B.A., M.Sc. Dal., Ph.D. Tor. Lectr.

Chemistry

Horan, F., M.A. Columbia Prof.
Foley, W. T., M.A. Cath. U. Amer. Instr.

Classics

Sears, Rev. L. B., M.A. Ox. (Latin) Prof.
Gillis, Rev. J. H., Ph.D. Cath. U. Amer. Instr.

Commerce

[Prof.
MacCormick, Rev. D., M.A., D.D. Laval

Economics and Sociology

MacDonald, Very Rev. D. J., M.A., Ph.D. Cath. U. Amer. Prof.
MacDonald, Rev. J. A., M.A. Tor. Prof.
Garvin, W., M.A. Cath. U. Amer. (Econ.) Assoc. Prof.

Education

MacLellan, Rev. M. A., Ph.D. Cath. U. Amer. Prof.
Lent, G. G., B.A. Stud. Asst.

Engineering

Blackburn, G. A., B.E., N.S.T. Prof.

English

Bannon, Rev. R. V., M.A. Prof.
Kane, Rev. G. L., A.M. Harv. Instr.

French

MacLean, C., D. de l'U. Paris Prof.
Chiasson, L. P., B.A. Stud. Asst.

Gaelic

MacEachern, Rev. M., B.A., D.D. Montr., Ph.D. Louvain Prof.

Geology

MacDonald, D. F., M.Sc. Geo. Washington, LL.D. St. John's Coll., N.Y. Prof.

German

Klein, O. Prof.

History

Somers, Rev. H. J., Ph.D. Cath. U. Amer. Prof.
St. Veronica, Sister, M.A. Cath. U. Amer. Assoc. Prof.

Italian

Sears, Rev. L. B., M.A. Ox. Prof.

Mathematics

McKenna, Rev. L. G., M.A. Prof.
Tobin, Rev. C., M.A. Assoc Prof.
MacDonell, M., B.A. Stud. Asst.

Philosophy

MacEachern, Rev. M., D.D. Montr., Ph.D. Louvain Prof.

Physical Education [Instr.

McLaughlin, Rev. M. E., B.A.

Physics

Nicholson, Rev. P. J., M.A., Ph.D. J. Hopk. Prof.
Tobin, Rev. C., M.A. Instr.

Extension Department

Coady, Rev. M. M., D.D. Urb. Rome, Ph.D. Coll. St. Thos., Rome, U.D. Boston Coll. Director.
MacDonald, A. B., B.A., B S.A. Tor. Assoc. Prof.
MacPherson, Rev. H., D.D.Urb. Rome Assoc. Prof.

GENERAL INFORMATION

Full University powers were conferred upon St. Francis Xavier in 1866. A new Charter was granted in 1909. The University is under the direction of the Catholic Church, but there are no religious tests for entrance or for degrees. Permanent buildings were begun in 1880. In 1919 Dr. Neil MacNeil of Dorchester, Mass., in addition to many previous large benefactions, transferred the whole of his estate to the Univ., and it is anticipated that ultimately over $500,000 will be realized from it.

In 1894 Mount Saint Bernard College for Women, founded in 1883, was affiliated with the University.

SCHOLARSHIPS, ETC. Knights of Columbus scholarships, 10 to 12 annually, $200 each; several Rev. R. McInnis scholarships of $300 and $200 each: 4 French scholarships annually, $200 each; also various other scholarships, bursaries and prizes.

LIBRARY, 52,000 vols. LABORATORIES: Biol., Chem., Geol., Phys., Engin.

COURSES. 4 yrs., B.A., B.Sc, B.Sc. Home Econ.; 5 yrs., B.Sc. Nursing; 3 yrs., Engineering; 1 yr. postgraduate Teacher-training course.

The B.A. degree is recognized as equivalent to the French Bachelier ès Lettres.

By an agreement with the Nova Scotia Technical College the Univ. confines its work in Engineering to the first 3 yrs. of the 5 yrs.' course. Students who successfully complete the Univ. course may proceed without examination to the Technical College for the professional work of the last 2 yrs. A similar concession is granted to engineering students by other technical colleges in Canada and in the United States, and at McGill Univ. they are admitted to the 3rd yr. of the Faculty of Applied Science.

PHYSICAL TRAINING. Gymnasium, skating rink, stadium.

PUBLICATIONS. *Calendar* (July); *Xavierian*, weekly; *Extension Bulletin*, bi-weekly.

THE YEAR 1937–38 **No Return.**

UNIVERSITY OF SASKATCHEWAN, SASKATOON

Founded 1907

VISITOR—Hon. A. P. McNAB.
CHANCELLOR—Sir F. W. G. HAULTAIN, LL.D. Tor., D.C.L.
CHAIRMAN OF GOVERNORS—Hon. P. E. MACKENZIE, B.A., LL.B. Tor.
PRESIDENT—JAMES S. THOMSON, M.A. Glas., D.D. Tor.
REGISTRAR—A. R. WEIR, B.A.

TEACHING STAFF

Accounting

Neilson, J., B.Acc. Prof.
Graham, D. J. (Book-keeping) Lectr.
Thompson, J. H., B.Acc. Lectr.

Agriculture, v. *infra*

Anatomy

Jackson, J. L., M.A. Alt., M.B. Tor. Prof.
Campbell, J. M., M.D. Manit. Asst. Prof.
Anderson, A. L., M.B. Tor., B.A. (Diagnosis) Lectr.

Art

Kenderdine, A. Prof.
Snelgrove, G. M.A. Col., Ph.D. Lond. Asst. Prof.
Stewart, Mrs. Hilda, R.M.S. Lectr.

Bacteriology

Rea, G. W., M.B., Ch.B., D.P.H. Belf. Prof.
Rayner, N. Analyst.

Biblical Literature

Corston, J. B., M.A. Dal. Lectr.

Biology

Thompson, W. P., M.A. Tor., Ph.D. Harv., F.R.S.C. Prof.
Vanterpool, T. C., M.Sc. McG. (Plant Pathol.) Prof.
Saunders, L. G., M.Sc. McG., Ph.D. Camb. Asst. Prof.
Rawson, D. S., Ph.D. Tor. Asst. Prof.
Arnason, T. J., Ph.D. Wis. Asst. Prof.

Chemistry

Thorvaldson, T., B.A., Manit., Ph.D. Harv., F.R.S.C. Prof.
Manning, R. J., B.A. Tor., D.Sc. Brist. (Biochem.) Prof.
Basterfield, S., B.Sc. Lond., Ph.D. Chic., F.R.S.C. Prof.
Larmour, R. K., Ph.D. Minn., M.Sc. (Cereal Chem.) Prof.
Vigfusson, V. A., Ph.D. Wis., M.A. Asst. Prof.
Spinks, J. W. T., B.Sc., Ph.D. Lond. Asst. Prof.
Fraser, J. H., B.Sc. Asst. Prof.
Van Cleave, A. B., M.Sc., Ph.D. McG. and Camb. Asst. Prof.

Classics

Sullivan, W. G., M.A. Dub. Prof.
Ramsay, W., B.A. Qu., Ph.D. Chic. Prof.
Ferguson, R. M., M.A. Dub. Prof.
Leddy, F. J., B.Litt., D.Phil. Ox., M.A. Instr.

Economics

Swanson, W. W., M.A. Qu., Ph.D. Chic. Prof.

Fowke, V., M.A. Asst. Prof.
Wright, C. P., M.A. Ox., Ph.D. Harv. Asst. Prof.
Timlin, Mabel, M.A. Instr.

Education

Quance, F. M., M.A. Alta., Ph.D. Col. Prof.
Laycock, S. R., B.A. Tor., M.A. Alta., Ph.D. Lond. Prof.
Russell, D. H., Ph.D. Col., B.A., B.Ed. Asst. Prof.

Engineering, v. *infra*

English

Wilson, R. A., Ph.D. Qu. Prof.
Lothian, J. M., M.A. Glas. Prof.
Bayer, Jean G., M.A. Dal. Prof.
Matheson, M., M.A. Qu. & Chic. Prof.
Bentley, J. A., M.A. Dal., Ph.D. Harv. Asst. Prof.
Brown, Edith, B.A. Lond. Asst. Prof.
MacKenzie, Edith J., B.A. Asst. Prof.
King, C. A., Ph.D. Tor. Asst. Prof.

French

MacDonald, J. A., B.A. Laval, M.A. Harv. Prof.
Cameron, Margaret, M.A. McG. and Rad., D. de l'U. Paris Prof.
Steinhauer, H. J., M.A., Ph.D. Tor. Asst. Prof.

Geology

Mawdsley, J. B., B.Sc. McGill, Ph.D. Princ., F.R.S.C. Prof.
Edmunds, F. H., M.Sc. Liv. Prof.

German

Anstensen, A., M.A., Ph.D. Col. Prof.
Steinhauer, H. J., M.A., Ph.D. Tor. Asst. Prof.

Hebrew

Corston, J. B., M.A. Dal. Lectr.

History

Morton, A. S., M.A. Edin., D.D. Hfx., F.R.S.C. Prof.
Simpson, G. W., M.A. Tor., B.A. Prof.
Murray, Jean E., M.A., Ph.D. Tor. Asst. Prof.

Household Science

Rutter, Ethel, M.A. Col., Ph.B. Chic. Prof.
Oxner, Bertha G., M.A. Chic., B.A. Prof.
Wilmot, Helen G., M.A. Chic. Asst. Prof.
Rowles, Edith, B.H.Sc. Instr.

Law

Cronkite, F. C., M.A. New Br., LL.B. Harv., K.C. Dean & Prof.
Hopkins, E. R., B.A. Tor. and Ox., LL.B. Prof.
Whitmore, E. F., LL.B. Asst. Prof.
Schmitt, C. G., LL.B. (Comml. L.) Lectr.
Goldenberg, J. M., LL.B. Lectr.
Winton, R. L., LL.B. Lectr.
Taylor, D. Lectr.
Jackett, W. R., B.A., B.C.L. Ox., B.A., LL.B. Lectr.
Francis, W. B., B.A., LL.B. Lectr.

Mathematics

Ling, G. H., B.A., LL.D. Tor., Ph.D. Col. Dean & Prof.
Pyke, A. J., M.A. Tor., Ph.D. Chic. Prof.
Ferns, H. H., Ph.D. Tor. Asst. Prof.
Ames, Vera, M.A., Ph.D. Bryn Mawr. Instr.

Music

Collingwood, A., F.T.C.L., F.R.C.O. Prof.

Pathology

Lindsay, W. S., O.B.E., B.A. Dal., M.A., Ch.B. Edin. Prof.

Pharmacy and Pharmacology

Woods, E. L., M.Sc. Wis., B.S.P. (Pharm.) Dean & Prof.

Basterfield, S., B.Sc. Lond., Ph.D. Chic. (Pharmacol.) Prof.

Philosophy

Sharrard, J. A., M.A. Tor. Prof.
Bateman, J. V., M.A. Dub., Ph.D. Edin. Prof.

Physics

Harrington, E. L., A.M. Harv., Ph.D. Chic., F.R.S.C. Prof.
Mackay, C. A., M.A. Dal., Ph.D. Princ. Prof.
Herzberg, G., Ph.D. Darms., M.A. Prof.
Currie, B. W., Ph.D. McG., M.Sc. Asst. Prof.
Haslam, N. H., B.A., Ph.D. McG. Asst. Prof.

Physiology

Fiddes, J., M.D. Aberd. Prof.

Political Science

Britnell, G., M.A., Ph.D. Tor. Prof.

Agriculture

Kirk, L. E., Ph.D. Minn., B.S.A. Dean and Prof.

Animal Husbandry

MacEwen, J. W. G., B.S.A. Tor., M.S. Ames Prof.
Ewen, A. H., M.A. Aberd., B.Sc. (Agr.) Edin. Asst. Prof.

Dairying

Potts, A. E., B.Sc. Edin., M.S.A. Corn. Prof.
Graham, V. E., M.Sc. Wis., B.S.A. Asst. Prof.

Engineering, Agric.

Hardy, E. A., M.S. Ames Prof.
Frey, R. P., M.S. Ames, B.S.A. Asst. Prof.

Farm Management

Hope, E. C., B.S.A. Br. Col., M.A. Corn. Prof.
Van Vlich, Hadley, M.S.A. Instr.

Field Husbandry [Prof.

Champlin, M., M.Sc. S. Dak.
Harrington, J. B., Ph.D. Minn., B.S.A. Prof.

Horticulture

Patterson, C. F., B.S.A. Tor., Ph.D. Ill. Prof.

Plant Ecology

Pavylychenno, T. K. Asst. Prof.

Poultry

Baker, R. K., B.A. Manit. Prof.
Rae, W. J., B.S.A. Manit., M.Sc. Wis. Asst. Prof.

Soils

Mitchell, J., Ph.D. Wis., B.S.A. Prof.
Edmunds, F. H., M.Sc. Liv. Lectr.

Veterinary Science

Fulton, J. S., D.V.S. McKillop Prof. and Director of Lab.
Wright, N., D.V.S. Lectr.

Engineering, v. also Agric.

Ceramic E. [Prof.

Worcester, W. G., Cer. E. Ohio

Civil E.

Mackenzie, C. J., M.C., B.E. Dal., M.C.E. Harv. Dean and Prof.
Williams, G. M., B.S.C.E. Neb. Prof.
Spencer, R. A., M.C., M.Sc. McG. Prof.
Phillips, E. K., M.Sc. Lectr.
Verbeke, G. J. (Drawing) Lectr.

Electrical E. [Prof.

Lovell, W. E., B.Sc. (Elec.) Manit.

Mechanical E.

Fraser, I. M., B.Sc. McG. Prof.
Atkinson, A. L. C., B.Sc. Durh. Asst. Prof.

Hutcheon, N. B., M.Sc., Lond.	Ph.D. Instr.	**Physical Training**	
		Cartwright, Ethel M.	Prof.
		Nicholson, Mary A., M.B., C.M.	Lectr.
Nursing			
Ellis, K., B.Sc. Col.	Lectr.	Griffiths, E. W.	Instr.

Regina College

Dean—W. Ramsay, M.A. Qu., Ph.D. Chic.

Director of Conservatory—D. A. Cameron.

Director of Fine Arts—G. Kenderdine.

Registrar—F. E. Wagg, B.D. Wesley, M.A. Wis.

Academic Dept.—*Art*, G. Kenderdine, G. Snelgrove, Ph.D. Lond. *Biol.*, J. G. Rempel, M.Sc. *Chem.*, M. R. Foran, M.Sc. *Classics*, The Dean. *Econ.*, F. E. Wagg, B.D. Wesley, M.A. Wis. *English*, Lucy H. Murray, M.A. Tor., Ph.D. Chic., B.Ed. *French and Hist.*, Hilda Neatby, Ph.D. Minn. *Household Sci.*, Irene I. Allen, B.S., M.A. Columbia. *Maths. and Philos.*, (by arrangement with Luther Coll.). *Physics*, E. R. Thackeray, M.A. *Phys. Training*, R. L. Coleman. 15 Teachers of Music.

St. Thomas More College

Principal and Prof. of French and English—Rev. E. L. Rush, B.A. Western, M.A. Col. *Classics*, F. J. Leddy, B.Litt., D.Phil., B.A., Lectr.; *Hist.*, Rev. G. F. Anglin, B.A. Laval, Prof.; *Philos.*, Rev. W. B. Markle, S.T.D., Ph.L., Prof. Adviser to Women, Mrs. B. Bujila, M.A. Col., B.A.

Extra-mural Work

Agriculture. Director and Prof., J. G. Rayner, B.S.A. Manit.; Asst. Director and Prof., K. W. Gordon, B.S.A. Manit.; Supervisor of Clubs, Prof. E. E. Brockelbank, M.S. Minn., B.S.A.; Prof. R. Ramsay, B.S.A.

Arts. Readers—Stella Nethery, B.A., Marguerite Buck, B.A., H. G. Mather, B.A.

Secretary for Agric. and Arts, Mabel Timlin, B.A.

AFFILIATED COLLEGES, ETC.

Emmanuel College, estabd. 1879 for training native helpers at Prince Albert, transferred to its present site in the Univ. grounds in 1909. Courses for Testamur, Lic.Th., B.D. Principal, Rev. W. A. Ferguson, M.A. Ox., D.D.

St. Chad's College, Regina, estabd. 1907. The Council of the College is authorized by Statutes of the Province to confer the degrees L.Th., B.D., D.D. A pass course for Testamur and General Synod course for L.Th. are provided. Chancellor, The Lord Bishop of Qu'Appelle. Warden, Rev. Canon R. J. Morrice.

St. Andrew's College, Saskatoon, estabd. 1912. Authorized to confer degrees in Divinity. Principal, Rev. D. S. Dix, M.A., Ph.D., D.D.

Lutheran College and Seminary, Saskatoon, incorporated 1924. Authorized to confer degrees in Theology. President and Dean, Rev. N. Willison, B.A., B.D., Litt.D.

JUNIOR COLLEGES—Regina College; Campion Coll., Regina; Luther Coll., Regina; St. Peter's Coll., Meunster; Sacred Heart Academy; Moosejaw Collegiate.

AFFILIATED SOCIETIES. College of Physicians and Surgeons; Law Society; Dental Council; Pharmaceutical Assn.; Assn. of Registered Nurses; Veterinary Assn.; Assn. of Architects; Inst. of Chartered Accountants; Optometrists; Land Surveyors; Assn. of Professional Engineers.

GENERAL INFORMATION

Established by Act of the Provincial Legislature in 1907, the Univ. opened classes in Arts and Sciences in 1909. For early history and constitution, see *Yearbook* for 1929. The site includes 1340 acres devoted to Agric. Education and Research, and a campus of 300 acres with a half-mile river frontage. The land, buildings, and equipment cost about $4,000,000. The maintenance of the Univ. is partially provided for by assignments of revenue and legislative grants. The annual budget is about $740,000.

The University conducts the LICENCE EXAMINATIONS for the following professions:—Medicine, Law, Dentistry, Accounting, Archit., Nursing, Vet. Sci., Optometry, Pharmacy, Land Surveyors, Drugless Practitioners, Engineering.

LIBRARY, 63,000 vols. LABORATORIES: Chem., Phys., Biol., Bact., Anat., Physiol., Engin., Geol., Field Husbandry, Agric. Engin., Animal Diseases, Dairy, Soils, Horticulture. Farm (830 a.). Agric. Experimental Fields (450 a.). Special provision for research in the various branches of Agriculture. OBSERVATORY.

FACULTIES. Arts and Science, Agric., Law, Engineering, Pharmacy, Accounting, Medical Sciences, Education, Household Science, Physical Education, Music, Nursing.

DEGREE COURSES. B.A., B.Sc., B.Acc., B.S.P. (Pharmacy), B.S.A. (Agric.), B.E. (Engin.), B.H.Sc. (Household Sci.), B.Mus., B.Ed., 4 yrs.; LL.B., 3 yrs.; combined B.A. and B.S.A., 6 yrs. This Univ. has the sole right to confer degrees (other than Theol.) in the Province.

HIGHER DEGREES. M.A., M.Sc., M.Ed.—examn. open to Bachelors of 1-yr. standing.

DIPLOMAS AND CERTIFICATES. A 2-yr. course in Arts, designed specially for Junior Colls., leads to the "Associate in Arts." A 2-yr. course in Agric. leads to the "Associate in Agric." A 2-yr. certif. course is given in Pharmacy. A 1-yr. certif. course in Education for graduates in Arts or Science. A 3-yr. course is given in the MEDICAL SCHOOL (preclinical including Anat. and Physiol.).

OTHER COURSES. Practical course for young farmers (1 or 2 yrs.), at University Farm School. Summer School in co-operation with Provincial Department of Education. Short Courses on Agricultural and allied subjects. Short courses for professional groups.

FEES. Tuition per annum for degree course in Agric., $90; Engin., $110; Acc., $110; Educ., $90; Pharm., $110; Med., $150; Arts and Sc., $90; Graduate, $90; Household Sci., $90; Law, $120; Nursing, $90.

SCHOLARSHIPS FOR GRADUATES. One in Arts or Sc., $100; one in each of Law, Pharmacy, Household Sci., Edn., Agric., and Engin., $50; one in Agric., $800.

RESIDENCE. Hostels for 170 men and 83 women. Board and room fees, $6.50 a week.

UNIV. EXTENSION. In Farming and Household Sci. short courses by itinerant lecturers at local centres. Annual convention (one week) in winter; 6 weeks' course in summer for teachers and others at the Univ. Bulletins, fairs, and shows.

EXTRA-MURAL WORK. Correspondence Courses, Short Courses, Homemakers' Courses, Musical Festivals, Night Classes, Summer School.

PUBLICATIONS. *Calendar* (April); *Agric. Bulletins*; *Sheaf*.

THE YEAR 1937–38

BENEFACTIONS. Co-operative Wheat Producers, $5000 for Junior Work; Searle Grain Co., $1000 for Research; Graingrowers, $1000 for Research.

NEW DEVELOPMENTS. School of Nursing instituted.

NEW BUILDINGS. Addition to Field Husbandry Building.

RESIGNATIONS. Prof. W. Allen (Farm Management), on appt. as Agricultural Commissioner for Canada in Great Britain; F. B. S. Rodman (Pharmacy), on appt. to Univ. of Alberta; P. Puxley (Chemistry), on appt. to industrial work; Professor F. A. Sheppard (Law), to take up law practice.

HONORARY DEGREES. *D.C.L.*—President Emeritus Walter C. Murray, M.A., LL.D., F.R.S.C. *LL.D.*—Mrs. Walter C. Murray, B.A.

STUDENTS. Full-time: 1758, including 46 graduates. Part-time: 1336.

DEGREES. B.A., 170; M.A., 4; LL.B., 10; B.Sc., 19; M.Sc., 18; B.S.A., 21; B.H.Sc., 35; B.E., 35; B.Acc., 18; B.Mus., 4; B.S.P., 5; B.Ed., 22; total, 361.

UNIVERSITY OF TORONTO

Founded 1843

with which are federated

THE UNIVERSITY OF TRINITY COLLEGE, TORONTO,

VICTORIA UNIVERSITY, TORONTO,

ST. MICHAEL'S COLLEGE, TORONTO, and

KNOX, WYCLIFFE, and EMMANUEL COLLEGES.

CHAIRMAN OF THE BOARD OF GOVERNORS—The Rev. D. B. MACDONALD, M.A., LL.D.

CHANCELLOR—The Rt. Hon. Sir WM. MULOCK, P.C., K.C.M.G., M.A., LL.D.

PRESIDENT—The Hon. and Rev. H. J. CODY, M.A., D.D., LL.D., F.R.S.C.

REGISTRAR—A. B. FENNELL, M.C., M.A.

BURSAR—F. A. MOURÉ, Mus.Doc.

LIBRARIAN—W. S. WALLACE, M.A., F.R.S.C.

SUPERINTENDENT OF BUILDINGS AND GROUNDS—A. D. Le PAN, B.A.Sc.

Note.—In the following list the members of the staff in the Faculty of Arts are indicated thus :

University College (C.).	Trinity College (T.).
Victoria College (V.).	St. Michael's College (M.).

TEACHING STAFF

Accounting

Ferguson, W. S. Prof.
Crocombe, F. R., M.A. Camb. Asst. Prof.
Ashley, C. A., B.Com. Birm. Assoc. Prof.
Grant, R. R. (A. and Business Method) Spl. Lectr.

Anatomy, v. also Biol.

Grant, J. C. B., M.C., M.B., Ch.B., F.R.C.S. Edin. Prof.
Watt, J. C., M.A., M.D. Prof.
Cates, H. A., M.B. Assoc. Prof.
Ham, A. W., M.B. Assoc. Prof.
George, R. K., B.A., M.B., D.P.H. Asst. Prof.
Smith, C. G., M.Sc. W. Ont., B.A., M.D., Ph.D. Lectr.
17 Demrs., etc.

Anthropology and Ethnology

McIlwraith, T. F., M.A. Camb. Prof.
Hart, C. W. M., M.A. Syd. Asst. Prof.
Nash, P., B.A. Wisc. Ph.D. Chic. Lectr.
Clark, S. D., M.A. Sask. and McG., Ph.D. Sask. Lectr.

Archæology

Currelly, C. T., LL.D. Qu., M.A., F.R.S.C. Prof.

White, Rt. Rev. W. C., B.D. W. Ont., D.D. (Chinese) Assoc. Prof.
Thompson, H. A., M.A. Br. Col., Ph.D. Mich. (Class.) Asst. Prof.

Architecture, v. *infra* Applied Sci. and Engin.

Art (*Fine Art*)

Alford, E. J. G., M.A. Camb. Prof.
Brieger, P., Ph.D. Breslau Asst. Prof.
Haines, F. S., R.C.A. Lectr.
Comfort, C. Lectr.

Astronomy

Young, R. K., Ph.D. Cal., B.A., F.R.S.C. Prof. and Dir. of Observ.
Hogg, F. S., A.M., Ph.D. Harv., B.A. Asst. Prof.
Millman, P. M., A.M., Ph.D. Harv., B.A. Lectr.
Heard, J. F., B.A. W. Ont., M.A. McG., Ph.D. McG. and Lond. Lectr.
2 Assts.

Bacteriology, v. Med.—Path

Banking, v. Polit. Sci.

Bio-Chemistry

Wasteneys, H., Ph.D. Col., F.R.S.C. Prof.
..... Prof.
Wynne, A. M., M.A. Qu., Ph.D. Assoc. Prof.
Crocker, B. F., M.A. Lectr.
5 Fellows.

Biology

Walker, E. M., B.A., M.B., F.R.S.C. (Inv. Zool.) Prof.
Piersol, W. H., B.A., M.B. (Anat., Histol., and Embryol.) Prof.
Huntsman, A. G., B.A., M.D., F.R.C.S. (Marine Biol.) Prof.

Assoc. Professors

Coventry, A. F., B.A. Ox. (Vert. Embry.).
Dymond, J. R., M.A. (Syst. Zool.).
MacArthur, J. W., A.B. Ober., M.A. Wabash, Ph.D. Chic., F.R.S.C. (Genetics).
Baillie, W. H. T., M.A., M.D. (Mamm. Anat.).
Craigie, E. H., B.A., Ph.D., F.R.S.C. (Comp. Anat. and Neur.).
Harkness, W. J. K., M.A. (Limnobiol.) Asst. Prof.
Ford, Norma H. C., B.A., Ph.D. Asst. Prof.
Fisher, K. C., B.A. Acad., M.A., Ph.D. Asst. Prof.
Ide, F. P., M.A., Ph.D. Lectr.
Langford, R. R., B Sc. Sask., Ph.D. Lectr.
28 Demrs., etc.

Botany

Thomson, R. B., B.A., F.R.S.C. (Plant Morph.) Prof.
Jackson, H. S., A.B. Corn., Ph.D. Wisc., F.R.S.C. (Mycol.) Prof.

Assoc. Professors

Sifton, H. B., M A., Ph.D., F.R.S.C. (Plant. Morph.).
Duff, G. H., M.A., Ph.D. (Plant Physiol.).
Bailey, D. L., B.A. Qu., M.S., Ph.D. Minn., F.R.S.C. (Plant Pathol.).
Wright, Jessie G., M.A., Ph.D. Asst. Prof.
Taylor, T. M. C., B.A. Br. Col., M.S. Wisc., Ph.D. Asst. Prof.
Haddow, W. R., M.F., Ph.D. Harv., B.Sc.F. Spl. Lectr.
21 Assts., etc.

Ceramics, v. Engineering (Met.)

Chemistry, v. also Eng., Food Chem.

Kenrick, F.B., Ph.D. Leip., M.A., F.R.S.C. Prof.
Burt-Gerrans, J. T., Phm.B., M.A., Ph.D. (Electro-C.) Prof.
Rogers, L. J., B.A.Sc., M.A. Prof.

Fischer, H., O.L., Ph.D. Jena
Research Prof.
Gordon, A. R., M.A., Ph.D. Prof.

Assoc. Professors

Ferguson, J. B., B.A., F.R.S.C.
Funnell, W. S., M.A.
Martin, W. H., M.A., Ph D., F.R.S.C.
Lorriman, F. R., M.A., Ph.D.
Beamish, F. E., M.A. McM.
Asst. Prof.
Wright, G. F., B.S., Ph.D. Iowa State Coll. Asst. Prof.
Baer, E. E. F. T., D.Phil. Berlin
Asst. Prof. of Research.
Wetmore, F. E. W., B.Sc. N. Br., M.A., Ph.D. Lectr.
Rae, J. J., B.A. McM., M.A., Ph.D.
Lectr.
Romeyn, Joan C., B.A. Lectr.
3 Demrs., 21 Assts.

Classics : Greek

Owen, E. T., M.A. Prof. (C.).
Hamilton, D. E., M.A., D.Pæd.
Assoc. Prof. (C.).
Tait, M. D. C., B.A. Ox.
Assoc. Prof. (C.).
Robertson, H. G., Ph.D. Chic., B.A. Assoc. Prof. (V.).
Adams, S.M., M.A. Assoc.Prof.(T.).

Classics : Greek and Latin

Norwood, G., M.A. Camb., D.Litt. Wales Prof. (C.).
Havelock, E. A., M.A. Camb.
Assoc. Prof. (V.).
Grube, G. M. A., M.A. Camb.
Prof. (T.).
Woodcock, J. N., M.A. Ox.
Prof. (T.).
Morley, Susan G., M.A. Lectr. (T.).
Gould, S. H., Ph.D. Yale, B.A.
Lectr. (V.).
1 Fellow (T.).
1 Instr. (C.).

Classics : Latin [Prof. (C.).
Smith, G. Oswald, M.A. Ox.
Dale, E. A., M.A. Ox. Prof. (C.).
MacKay, L. A., B.A. Ox., M.A.
Asst. Prof. (C.).
De Witt, N. W., B.A., Ph.D. Chic., F.R.S.C. Prof. (V.).
Bennett, H., Ph.D. Chic., B.A.
Prof. (V.).
Kirkwood, W. A., M.A., Ph.D. Harv. Dean and Prof. (T.).
Muckle, Rev. J. T., M.A. Cath. U. Am. Prof. (M.).
St. John, Sister M., M.A.
Assoc. Prof. (M.).
O'Toole, Rev. W. B., B.A.
Assoc. Prof. (M.).
Agnes Joseph, Sister M., M.A.
Lectr. (M.).
St. Stanislaus, Sister M., B.A.
Lectr. (M.).
3 Instrs. (M.).

Dentistry, v. *infra*

Economics, v. Polit. Sc.

Education, v. *infra* Ontario Coll. of Education

Embryology, v. Biol.

Engineering, v. *infra*

English

Wallace, M. W., Ph.D. Chic., LL.D. McM., B.A.
Principal and Prof. (C.).
Knox, R. S., M.A. Aberd., B.A. Ox. Prof. (C.).
Macdonald, J. F., M.A. Qu.
Prof. (C.).
Woodhouse, A. S. P., A.M. Harv., B.A. Prof. (C.).
Brown, E. K., D. ès L. Paris, B.A.
Prof. (C.).
Clawson, W. H., B.A. N.Br., M.A., Ph.D. Harv. Assoc. Prof. (C.).
Endicott, N. J., B.Litt. Ox., B.A. Ox. and Tor. Asst. Prof. (C.).
MacGillivray, J. R., Ph.D. Harv., M.A. Asst. Prof. (C.).
Birney, A. E., B.A. Br. Col., M.A., Ph.D. Lectr. (C.).
Pratt, E. J., M.A., Ph.D., F.R.S.C.
Prof. (V.).

Robins, J. D., Ph.D. Chic., M.A. Prof. (V.).
Fisher, J., B.A., B.Litt. Ox. Asst. Prof. (V.)
Coburn, Kathleen H., B.Litt. Ox., M.A. Lectr. (V.).
Knight, G. W., M.A. Ox. Prof. (T.).
Hodgins, L. C. A., M.A. Tor. and Harv. Prof. (T.).
Kirkwood, Mrs. M. M., M.A., Ph.D. Assoc. Prof. (T.).
Barker, A. E., Ph.D. Lond., M.A. Lectr. (T.).
McCorkell, Rev. E. J., M.A. Cath. U. Am., B.A. Superior and Prof. (M.).
Le Bel, Rev. E. C., M.A. Chic., B.A. Prof. (M.).

Lecturers

Dorothea, Sister M., B.A. Qu., M.A., Ph.D. (M.).
Dominica, Sister M., M.A. (M.).
Bernita, Sister M., B.A. (M.).
O'Donnell, Rev. J., B.A. W. Ont. (M.).
St. Margaret, Sister M., B.A. (M.).
4 Instr., etc. (V.).

Fine Art, v. Art

Food Chemistry

Benson, Clara C., B.A., Ph.D. Prof.
Panton, Jean R., M.A. Lectr.
Smith, Mary D., M.A., Ph.D. Lectr.
Walker, Edith I., M.A. Lectr.
1 Instr., 4 Assts.

Forestry

Howe, C. D., M.S. Ver., Ph.D. Chic. Dean and Prof.
White, J. H., B.Sc.F., M.A., Ph.D. Prof.
Dwight, T. W., M.F. Yale, B.Sc.F. Assoc. Prof.
Cosens, G. G., B.Sc.F., M.A. Assoc. Prof.
Hosie, R. C., B.Sc.F., M.A. Asst. Prof.

French

Jeanneret, F. C. A., D. ès L. Laval, B.A. Prof. (C.).
Will, J. S., Ph.D. Col., L. ès L. France, B.A. Prof. (C.).
de Champ, St. E., O I.P. Prof. (C.).
McAndrew, W. J., M.A. Assoc. Prof. (C.).
Humphreys, H. L., B.A. Mich., A.M. Princ., Ph.D. Col. Assoc. Prof. (C.).
Andison, J. G., B.A. Manit., A.M., Ph.D. Col. Asst. Prof. (C.).
Finch, R. D. C., B.A. Asst. Prof. (C.).
Rouillard, C. D., A.B. Bowd., A.M., Ph.D. Harv. Asst. Prof. (C.).

Lecturers

Cole, Alfreda C., M.A. (C.).
Balthazard, Isabel G., M.A. (C.).
MacDonald, Marguerite D., Dip. de l'U. Paris (C.).
Houpert, J. A., M.A. Ill. (C.).
Assié, G. L., L. ès L., Dip. Ét. Sup. Paris Lectr. (C.).
Ford, H. E., M.A., Ph.D. Col. Prof. (V.)
de Beaumont, V., A.M. Col. Prof. (V.).
Lacey, A., A.M. Col., B.A., Ph.D.
Lasserre, H., L. en Dt. Geneva Assoc. Prof. (V.).
Trethewey, W. H., Ph.D. Chic., M.A. Asst. Prof. (V.).
Cook, Alta L., B.A. Lectr. (V.).
Hare, F. A., M.A. Lectr. (V.).
Riese, Laure, Dip. d'Et. Sup. Switzerland, M.A. Lectr. (V.).
Hicks, R. K., B.A. Camb., A.M. Harv. Prof. (T.).
Walter, F. H., M.A. McG., D. de l'U. Paris Prof. (T.).
Walter, Dorothea, M.A. Qu. Lectr. (T.).
Bondy, Rev. L. J., M. A. Chic., Ph.D. J. Hop., B.A. Prof. (M.).

Murray, Rev. W. H., L. en Ph. Univ. Cath. de Paris, B.A. Prof. (M.).
Denomy, Rev. A. J., B.A. W. Ont., Ph D. Harv., M.A. Harv. and Tor. Prof. (M.).
Agnes, Sister M., M.A. Assoc. Prof. (M.).
Berchmans, Sister M., A.M. Chic., B.A. Assoc. Prof. (M.).
Bernard, Sister M., M.A. Lectr. (M.).
Forestell, Rev. D. L., B.A. Lectr. (M.).
Marie Thérèse, Sister M., M.A. Lectr. (M.).
St. Peter, Sister M., M.A. Lectr. (M.).
St. Ivan, Sister M., B.A. Lectr. (M.).
Sharpe, Rev. G. V., B.A. Lectr. (M.).
1 Fellow (V.).

Genetics, v. Biology

Geography

Taylor, Griffith, B.A. Camb., B.E., D.Sc. Syd. Prof.
Jones, S. B., B.S. Wash., A.M., Ph.D. Harv. Lectr.
5 Demrs.

Geology

Moore, E. S., Ph.D. Chic., M.A., F.R.S.C. Prof.
MacLean, A., B.A. Prof.
Langford, G. B., Ph.D. Corn., B.A.Sc. (Mining) Prof.
Fritz, Madeleine A., B.A. McG., M.A., Ph.D. Asst. Prof.
Russell, L. S., B.Sc. Alt., M.A., Ph.D. Princ. Asst. Prof.
Satterly, J., Ph.D. Camb., M.A. Lectr.
1 Instr., 7 Assts.

German

Fairley, Barker, M.A. Leeds and Manc., Ph.D. Jena Prof. (C.).
Hedman, T., Ph.B. Chic. Assoc. Prof. (C.).
Holt, G. E., M.A., Mus.B. Asst. Prof. (C.).
Boeschenstein, H., Ph.D. Rostock Asst. Prof. (C.).
Joos, M., M.A. Wisc. Lectr. (C.).
Surerus, J. A., B.A. Prof. (V.).
Arnold, R. K., Ph.D. Prague Asst. Prof. (V.).
Shore, T. C., M.A. Qu. and Harv. Asst. Prof. (V.).
Lewis, C., M.A. Ox. Prof. (T.).
Scott, Laila C., M.A. Assoc. Prof. (T.).
Mueller, Victoria E. W., M.A., Ph.D. Assoc. Prof. (M.).
2 Fellows (V.).
1 Instr. (M.).

Histology, v. Biology

History

Professors

Martin, Chester, M.A. Ox., LL.D. Manit. and N. Br., F.R.S.C.
Flenley, R., M.A. Liv., B.Litt. Ox.
Underhill, F. H., M.A. Ox., B.A.
Brown, G. W., M.A., Ph.D. Chic., B.A.
Wilkinson, B., M.A., Ph.D. Manc.
Glazebrook, G. P. de T., M.A. Ox., B.A. Assoc. Prof.

Asst. Professors

Creighton, D. G., M.A. Ox., B.A.
McInnis, E., M.A. Ox., B.A.
McDougall, D. J., M.A. Ox., B.A.
Saunders, R. M., M.A. Clark, Ph.D. Corn.
1 Asst.

History, Ancient

Cochrane, C. N., M.A. Ox., B.A. Prof. (C.).
Needler, Miss M. C., Ph.D. Chic., M.A. Asst. Prof. (C.).
Sissons, C. B., LL.D. Ottawa, B.A. Prof. (V.).
Woodside, M. St. A., M.A. Ox., B.A. Asst. Prof. (V.).

Household Science, v. also Food Chemistry

Brodie, Jessie B., A.M., Ph.D. Col., B.A. Prof.
Willard, Alice C., A.M. Knox, S.M., Ph.D. Chic. Asst. Prof.
Park, Edna W., M.A. Asst. Prof.

Lecturers

Bennett, Kathleen E., M.A. Col., B.A.
Coatsworth, Helen R., M.A.
Mulholland, Dorothy E., M.A.
Roberts, Jessie S., B.A., M.S. Manit.
3 Assts.

Italian and Spanish

Buchanan, M. A., B.A., Ph.D. Chic., F.R.S.C. Prof.
Shaw, J. E., A.B., Ph.D. J. Hop. Prof.
Goggio, E., Cav. della Cor. d'It., B.A., Ph.D. Harv., M.A. Prof.
Patterson, G. C., M.C., B.A. Assoc. Prof.
Cano, J., A.B. Tol., A.M., Ph.D. Col. Assoc. Prof.
2 Instrs.

Law

Kennedy, W. P. McC., M.A. Dub. and Ox., Litt.D. Dub., F.R.S.C. (Constit. L.) Prof.
Mackenzie, N. A. M., B.A., LL.B. Dal., LL.M. Harv. (Public and Private Inter. L.) Prof.
Auld, F. C., B.A. McG., M.A., B.C.L. Ox. (Roman L. and Jur.) Prof.
Finkelman, J., M.A., LL.B. Asst. Prof.
Hancock, J. E. M., B.A. Lectr.
Gray, K. G., M.B., B.Sc.(Med.) Hon. Lectr.
Laidlaw, R. E., B.A.Sc. (Engin. L.) Spl. Lectr.

Library Science, v. *infra* Ontario Coll. of Education

Mathematics

Beatty, S., M.A., Ph.D., F.R.S.C. Dean Fac. Arts, and Prof.
Pounder, I. R., Ph.D. Chic., M.A. Prof.

Assoc. Professors

Webber, W. J., B.A. Camb.
Sheppard, N. E., M.A.
Robinson, D. A. F., Ph.D. Chic., M.A.

Burk, J. D., B.A. Asst. Prof.
Robinson, G. de B., Ph.D. Camb., B.A. Asst. Prof.
Brauer, R., Ph.D. Berlin Asst. Prof.
Coxeter, H. S. M., B.A., Ph.D. Camb. Asst. Prof.
Waddell, Mary E. G., M.A. Lectr.
Krieger, Cypra C., M.A., Ph.D. Lectr.
De Lury, D. B., M.A., Ph.D. Lectr.
Baillie, D. C., M.A. Lectr.
5 Fellows.

Mathematics, Applied

Synge, J. L., M.A., Sc.D. Dub., F.R.S.C. Prof.
Stevenson, A. F. C., M.A., Ph.D. Camb., F.R.S.C. Assoc. Prof.
Griffith, B. A., M.A., Ph.D. Lectr.
Infeld, L., Ph.D. Cracow Lectr.
2 Fellows.

Medicine and Surgery, v. *infra*

Metallurgy, v. Engin.

Military Studies

Watson, M. B., B.A.Sc., C.E., M.E. Director.

Mineralogy

Parsons, A. L., A.B. N.Y. Prof.
Thomson, J. E., Ph.D. Harv., B.A.Sc., F.R.S.C. Prof.
Peacock, M. A., M.A. Harv., Ph.D., D.Sc. Glas. Assoc. Prof.
Meen, V. B., M.A., Ph.D. Lectr.
2 Assts.

Mining, v. Engin.

Music, v. also *infra* Ontario Coll. of Education

MacMillan, Sir Ernest, D.Mus. Ox., LL.D. Br. Col., B.A. Dean.
Smith, L., Mus.B. Manc. Prof.
Willan, H., Mus.Doc., F.R.C.O. Prof.

Nursing, v. *infra*

Oriental Languages

Taylor, W. R., D.D., Qu. M.A., Ph.D. Prof. (C.).
Meek, T. J., B.D. McCorm., Ph.D. Chic., B.A. Prof. (C.).
Winnett, F. V., M.A., Ph.D. Asst. Prof. (C.).
McCullough, W. S., M.A. Lectr. (C.).
Staples, W. E., M.A., Ph.D. Assoc. Prof. (V.).
Mercer, S. A. B., B.A. Harv., C.E., M.A. Wisc., Ph.D. Munich, D.D., LL.D. Nashotah Prof. (T.).
Evans, Rev. K. C., M.A., Ph.D. Assoc. Prof. (T.).
1 Fellow (C.).

Philosophy, v. also Classics

Brett, G. S., M.A. Ox., F.R.S.C. Dean, Grad. School and Prof.
Anderson, F. H., B.A. Dal., M.A., Ph.D. Prof.
MacCallum, H. R., B.A. Qu. and Ox. Assoc. Prof.
Macdonald, E. W., B.A. Qu. Assoc. Prof.
McCurdy, W. J., B.A. Dal., M.A., Ph.D. Harv. Assoc. Prof.
Goudge, T. A., Ph.D., M.A. Dal. Lectr.
Brown, W. T., Ph.D. Harv., M.A. Principal and Prof. (V.).
Lane, W. B., Ph.D. Wisc., M.A. (Ethics) Prof. (V.).
Line, Rev. J., S.T.D., Mont., D.D. Pine Hill, M.A., B.D. (Ethics) Assoc. Prof. (V.).
Macpherson, Jessie, M.A. Lectr. (V.).
Kingston, Rev. G. F., M.A., B.D. King's, Ph.D. (Ethics) Prof. (T.).
Carr, Rev. H., B.A., LL.D. Prof. (M.).
Gilson, E., D. ès L. Paris, LL.D. Aberd., Harv. and St. And., Ph.D. Mont., D.Litt. Ox. Prof. (M.).
Maritain, J., Ag. de l'U. Paris Prof. (M.).
Coughlin, Rev. H., B.A. W. Ont., S.T.D. Rome, M.A. Prof. (M.).
Sullivan, Rev. B., M.A. Cath. U. Am. Prof. (M.).
Dwyer, Rev. W. J., B.A. W. Ont., M.A. Roch., Ph.D. Louvain Asst. Prof. (M.).
McGahey, Rev. J. E., M.A. Lectr. (M.).
Somerville, H., M.A. Lectr. (M.).
Welty, Rev. E. J., B.A. W. Ont., Ph.D. Frei., M.A. Lectr. (M.).
1 Asst. (C.), 1 Fellow (T.), 9 Instrs. (M.).

Physics

Burton, E. F., B.A. Tor and Camb., Ph.D., F.R.S.C. Prof.
Satterly, J., M.A. Camb., D.Sc. Lond., F.R.S.C. Prof.
Gilchrist, L., M.A., Ph.D. Chic., F.R.S.C. Prof.
McTaggart, H. A., M.A. Tor. and Camb., Ph.D., F.R.S.C. Prof.
Ainslie, D. S., M.A., Ph.D. Assoc. Prof.
Ireton, H. J. C., M.A., Ph.D. Assoc. Prof.
Smith, H. G., B.A., Ph.D. Assoc. Prof.

Asst. Professors

Barnes, C., M.Sc. Leeds, Ph.D.
Pitt, A., B.A. Houghton.
Wilhelm, J. O., B.Sc. Sask., M.A.
Crawford, M. F., B.A. W. Ont., M.A., Ph.D.

Lecturers
McLay, A. B., B.A. McM., M.A., Ph.D.
Quinlan, Florence M., M.A., Ph.D.
Allin, Elizabeth J., M.A., Ph.D.
Crossley, Kathleen M., B.A.
Anderson, J. M., M.A., Ph.D.
Kohl, W. H., Dr.Ing. Dresden
Spl. Lectr.
29 Demrs., etc.

Physiology
Best, C. H., D.Sc. Lond., M.A., M.D., F.R.C.P. Can., F.R.S., F.R.S.C. Prof.
Taylor, N. B., M.D., F.R.C.S. Edin. Prof.
Waters, E. T., B.Sc., Ph.D. Wales Asst. Prof.
Solandt, D. Y., Ph.D. Lond., M.A., M.D. Asst. Prof.
Fidlar, E., B.A., M.D. Lectr.
Botterell, E. H., M.D. Manit., M.S., F.R.C.S. Can. Lectr.
4 Demrs., 3 Fellows.

Political Science, v. also Law
Innis, H. A., M.A. McM., Ph.D. Chic., F.R.S.C. Prof.
Jackman, W., M.A. (Transp.) Prof.
Kemp, H. R., M.A. Assoc. Prof.
Brady, A., B.A. Ox., M.A., Ph.D. Assoc. Prof.
Bladen, V. W., M.A. Ox. Assoc. Prof.
Dawson, R. M., M.A. Dal., A.M. Harv., D.Sc. Lond. Assoc. Prof.
Logan, H. A., B.A. Acadia, A.B. Yale, Ph.D. Chic. Assoc. Prof.
Morgan, L. T., B.A. Br. Col., M.A., Ph.D. Cal. Asst. Prof.
Parkinson, J. F., B.Com. Lond. Asst. Prof.
MacGregor, D. C., B.A. Asst. Prof.
Plumptre, A. F. W., M.A. Camb., B.A. Asst. Prof.
Coe, V. F., Ph.B. Chic. Asst. Prof.
Macpherson, C. B., M.Sc. (Econ.) Lond., B.A. Lectr.
Westcott, F. J., B.A. Brand. Spl. Lectr.
6 Instrs., etc.

Psychology
Bott, E. A., B.A. Prof.
Blatz, W. E., Ph.D. Chic., M.A., M.B. Prof.
Chant, S. N. F., M.A. Prof.
Line, W., B.Sc. Mt. A., M.A., B.Ed. Alb., Ph.D. Lond. Assoc. Prof.
Ketchum, J. D., M.A. Asst. Prof.
Cosgrave, G. P., M.A. Manit., Ph.D. Asst. Prof.
Bernhardt, K. S., Ph.D. Chic., M.A. Asst. Prof.
Myers, C. R., M.A., Ph.D. Asst Prof.
Rogers, K. H., M.A., Ph.D. Spl. Lectr.
Griffin, J. D. M., M.A., M.D. Spl. Lectr.
Phelan, G., M.A. St. F. X., Ph.D. Louvain Prof. (M.).
O'Sullivan, P. M., M.A., M.B., Ph.D. Assoc. Prof. (M.).
Dore, Rev. J. W., M.A. Asst. Prof. (M.).
2 Instr., 14 Assts. etc.

Public Speaking, v. *infra*, Applied Sci. and Engin.

Religious Knowledge, v. *infra* Federated Colls.

Social Science, v. also Pol. Sci.
Grauer, A. E., B.A. Br. Col. and Ox., Ph.D. Cal. Prof. and Dir.
McGregor, Agnes Asst. Prof. and Asst. Dir.
Finlayson, Barbara M., B.A. Lectr.
McCullagh, D. G., B.A. Lectr.
17 Lectrs. (part-time).

Spanish, v. Italian

Zoology, v. Biology

Applied Science and Engineering

Mitchell, C. H., C.B., C.M.G., D.S O., B.A.Sc., C.E., LL.D., D.Eng. Dean.

Architecture

Madill, H. H., B.A.Sc. Prof.
Arthur, E. R., M.A., B.Arch. Liv. Prof.
Burden, H. J., D.S.O., D.F.C., M.F.A. Princ., B.A.Sc. Asst. Prof.
Carswell, W. E., B.Arch. Lectr.
Carver, H. M. S. Spl. Lectr.
Dunington-Grubb, H. B. Spl. Lectr.
Mathers, A. S., B.A.Sc. Spl. Lectr.
Wilson, W. S., B.A.Sc. Spl. Lectr.
4 Instrs.

Chemical E. and Appl. Chemistry

Bain, J. W., B.A.Sc., F.R.S.C. Prof.
Boswell, M. C., A.M., Harv. B.A.Sc., Ph.D. F.R.S.C. (Org. Chem.) Prof.
Ardagh, E. G. R., B.A.Sc., F.R.S.C. Prof.
Smith, E. A., M.A. McM. Asst. Prof.
McLaughlin, R. R., M.A.Sc., M.A., Ph.D. Asst. Prof.
Macdonald, W. C., M.A.Sc. Lectr.
Crossley, T. L. Spl. Lectr.
3 Instrs., 6 Demrs.

Civil E. and Applied Mechanics

Young, C. R., B.A.Sc., C.E. (Civil Eng.) Prof.
Loudon, T. R., B.A.Sc. (App. Mech.) Prof.
Morrison, C. F., B.E. Sask., M.Sc. McG. Asst. Prof.
Sagar, W. L., B.A.Sc., C.E. Asst. Prof.
Legget, R. F., M.Eng. Liv. Asst. Prof.
Lazier, M. J. C., B.A.Sc. Lectr.
McIntyre, R. B., B.A. Camb., B.A.Sc. Lectr.
Berry, A. E., M.A.Sc., C.E., Ph.D. Spl. Lectr.
Goodier, J. N., M.A., Ph.D. Camb. Spl. Lectr.
1 Instr., 3 Demrs.

Electrical E.

Price, H. W., B.A.Sc. Prof.
Zimmer, A. R., B.A.Sc. Assoc. Prof.
Smith, V. G., B.A.Sc. Assoc. Prof.
Tracy, G. F., S.M. Mass. Inst. of Tech., B.A.Sc. Assoc. Prof.
Bayly, B. de F., B.A.Sc. Asst. Prof.
Brown, R. J., B.A.Sc. Lectr.
Reid, J. E., B.A.Sc. Lectr.
2 Instrs., 8 Demrs.

Engineering Drawing

Cockburn, J. R., M.C., V.D., B.A.Sc. (Descr. Geometry) Prof.
Smither, W. J., B.A.Sc. (Struct. Eng.) Assoc. Prof.
Wright, W. J. T., M.B.E., B.A.Sc. Assoc. Prof.
Dunbar, W. B., B.A.Sc. Asst. Prof.
Wardell, A., B.A.Sc. Asst. Prof.
Jermyn, P. V., B.A.Sc. Lectr.
Spence, J. J. Lectr.
2 Instrs., 5 Demrs.

Mechanical E.

Angus, R. W., B.A.Sc., M.E. Prof.
Allcut, E. A., M.Sc. Birm., M.E. Prof.
Taylor, R., B.A.Sc. Assoc. Prof.
McIntosh, W. G., B.A.Sc. Assoc. Prof.
Hally, G. H., B.A.Sc. Lectr.
Lord, G. R., S.M. Mass. Inst. Tech., B.A.Sc. Lectr.
Wiren, R. C., B.A.Sc. Lectr.
8 Demrs.

Metallurgical E.

Guess, G. A., M.A. Qu. Prof.
Newcombe, J. A., B.Sc. Lond. Assoc. Prof.

Montgomery, R. J., B.Sc.Cer.E. Ohio (Ceramics) Assoc. Prof.
Toomer, J. E., B.S. N. Carolina. Asst. Prof.

Mining E.

Williams, C. G., B.A.Sc. Prof.
King, J. T., B.A.Sc. Prof.
Dyer, F. C., B.A.Sc. Prof.
Wolfe, S. E., M.A.Sc. Lectr.
1 Instr., 4 Demrs.

Physics, Applied

Jackson, K. B., B.A.Sc. Assoc. Prof.
Henderson, V. L., A.M. Mich., B.A.Sc. Lectr.
2 Instrs., 3 Demrs.

Public Speaking

Kirkpatrick, F. H., Ph.B. Hiram, Ph.D. Central Univ. Spl. Lectr.

Surveying

Treadgold, W. M., B.A. Prof.
Crerar, S. R., B.A.Sc. Assoc. Prof.
Banting, E.W., B.A.Sc. Assoc. Prof.
Melson, J. W., B.A.Sc. Assoc. Prof.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Bacteriology, v. Pathology

Gynæcology, v. Obstetrics

History of Medicine [Prof.
Elliott, J. H., M.B., F.R.C.P. Can.

Hygiene and Preventive Med., v. also Schl. of Hygiene, *infra*

FitzGerald, J. G., LL.D. Qu., M.D., F.R.C.P. Can., F.R.S.C. Prof.
Fraser, D. T., M.C., B.A., M.B., D.P.H. F.R.S.C. Prof.
Defries, R. D., M.D., D.P.H. Prof.
Moloney, P. J., M.A., Ph.D., F.R.S.C. Assoc. Prof.
Brown, M. H., B.Sc. (Med.), M.D. Asst. Prof.
Fraser, Frieda, B.A., M.B. Asst. Prof.
Wishart, F. O., B.A., M.D. Lectr.
1 Fellow, 9 Assts., etc.

Life Insurance

Falconer, J. G., M.D., F.R.C.P. Can. Spl. Lectr.

Medical Ethics

Young, G. S., B.A., M.B., F.R.C.P. Can. Lectr.

Medical Jurisprudence

Gray, K. G., M.B., B.Sc.(Med.) Lectr.
Robinson, W. L., B.A. McM., M.B., F.R.C.P. Can. Lectr.

Medical Research

Banting, Sir Frederick G., K.B.E., M.C., M.D., LL.D. Qu. and W. Ont., Sc.D. Yale, D.Sc., F.R.C.S., F.R.S. Eng. and Can. Prof.
Irwin, D. A., M.B., B.Sc. (Med.) Assoc. Prof.
Franks, W. R., M.A., M.B. Assoc. Prof.
Hall, G. E., M.S.A., M.D., Ph.D. Assoc. Prof.
Lucas, C. C., M.A.Sc. Br. Col., Ph D. Assoc. Prof.
Mendel, B., M.D. Berlin. Asst. Prof.
3 Assocs., 17 Assts., 2 Fellows.

Medicine and Clinical Medicine

Graham, D. A. L., M.B., F.R.C.P. Can. and Lond. Prof.

Asst. Professors

Farquharson, R. F., M.B., F.R.C.P. Can.
Howland, G. W., B.A., M.B., F.R.C.P. Can. and Lond.
Oille, J. A., M.D., F.R.C.P. Can.
Loudon, J. D., B.A., M.B., F.R.C.P. Can.
McPhedran, W. F., B.A., M.B., F.R.C.P. Can.

Trow, E. J., M.B., F.R C.P. Can. (Dermat.).
Detweiler, H. K., M.D., F.R.C.P. Can.

Associates

Armour, R. G., B.A., M.B., F.R.C.P. Can.
Campbell, W. R., M.A., M.D., F.R.C.P. Can., F.R.S.C.
Elliott, J. H., M.B., F.R.C.P. Can.
Fletcher, A. A., M.B., F.R.C.P. Can.
Hannah, B., M.B., F.R.C.P. Can.
Hepburn, J., M.B., F.R.C.P. Can.
McPhedran, A. G., B.A., M.B., F.R.C.P. Can.
Owen, T., M.B., M.R.C.P. Lond., F.R.C.P. Can.
Parsons, H. C., M.A., M.D., C.M., F.R.C.P. Lond.
Rolph, F. W., M.A., M.D., F.R.C.P. Can.
Warner, W. P., M.B., F.R.C.P. Can.
30 Demrs., 2 Fellows.

Obstetrics and Gynæcology

Scott, W. A., B.A. McM., M.B., F.R.C.S. Can. Prof.
Frawley, N. D., M.B., F.R.C.S. Can. Asst. Prof.
Van Wyck, H. B., B.A., M.B., F.R.C.S. Can. Asst. Prof.
Wesley, R. W., M.B., F.R.C.S. Can. Asst. Prof.
15 Demrs., 2 Fellows.

Ophthalmology

Lowry, W. H., M.D., C.M., F.R.C.S. Can. Prof.

Associates

Aylesworth, F. A., M.D., C.M. Qu.
Hill, C. E., M.D., F.R.C.S. Can.
Lyon, M., M.D., C.M.
MacDonald, A. E., M.D., F.R.C.S. Can.
Wright, W. W., M.B.
3 Demrs., 2 Assts.

Oto-Laryngology

Goldsmith, P. G., C.B.E., M.D., C.M., F.R.C.S. Can. Prof.
Biggs, G. M., M.B. Assoc. Prof.
Campbell, A. A., M.B. Assoc.
12 Demrs.

Pathological Chemistry

Hunter, A., M.A., B.Sc., M.B. Edin., F.R.F.P. and S. Glas. Prof.
Nicholson, T. F., M.B., B.Sc. (Med.), Ph.D. Assoc. Prof.
Urquhart, R. W. I., M.A., M.D. Lectr.
3 Demrs., 2 Fellows.

Pathology and Bacteriology

Boyd, W., M.D. Edin., M.R.C.P. Edin., F.R.C.P. Lond. Prof.
Holman, W. L., B.A., M.D., C.M. McG. (Bact.) Prof.
Linell, E. A., Ch.B., M.D. Manc. (Neuropath.) Prof.
Robinson, W. L., B.A. McM., M.B., F.R.C.P. Can. (Path.) Prof.
Shanks, G., B.A., M.D., C.M. McG. Asst. Prof.
Duff, G. L., M.A., M.D., Ph.D. (Path.) Asst. Prof.
Detweiler, H. K., M.D., F.R.C.P. Can. (Serology) Assoc. Dir.
Magner, W., M.B., B.Ch., B.A.O. R.U.I., M.D., D.P.H. N.U.I. (Path.). Asst. Prof.
Erb, I. H., M.B. (Path.). Asst. Prof.
Price, Ruth M., M.B. (Bact.). Lectr.
Greey, P. H., M.D., B.Sc. (Med.) (Bact.). Lectr.
Tom, Mary I., B.A., M.B. (Neuropath.) Lectr.
4 Demrs., 1 Asst., 5 Fellows.

Pediatrics

Brown, A., M.D., F.R.C.P. Can. Prof.
Canfield, A. W., M.D., C.M. Assoc.
Morgan, E. A., M.B. Assoc.

Tisdall, F. F., M.D., F.R.C.P. Can. Assoc.

11 Demrs.

Pharmacy and Pharmacology

Henderson, V. E., M.A., M.B., F.R.C.P. Can., F.R.S.C. Prof.
Lucas, G. H. W., M.A., Ph.D.
Ferguson, J. K. W., M.A., M.D. Asst. Prof.

1 Asst., 1 Fellow.

Psychiatry

Farrar, C. B., A.B. Harv., M.D. J. Hop., F.R.C.P. Can. Prof.
Lewis, E. P., B.A. McM., M.B. Asst. Prof.
McCuaig, C. H., M.D., C.M.Qu. Assoc.

7 Demrs., 3 Fellows.

Radiology

Richards, G. E., M.B., F.R.C.P. Can. Prof.
Singleton, A. C., M.B. Assoc.

3 Demrs.

Surgery and Clinical Surgery

Gallie, W. E., M.D., F.R.C.S. Eng. and Can. Dean and Prof.

Asst. Professors

Graham, R. R., M.B., F.R.C.S. Can.
Pearse, R., F.R.C.S. Eng. and Can.
Robertson, D. E., M.D.
Ryerson, E. S., M.D., C.M. Asst. Dean.
Shenstone, N. S., M.D. Col., B.A.
Wilson, G. E., M.B., F.R.C.S. Eng.
Duff, T. A. J., M.B., F.R.C.S. Edin.
McKenzie, K. G., M.B., F.R.C.S. Can.

Associates

Gaby, R. E., M.D. Corn., B.A., F.R.C.S. Can.
Harris, R. I., M.C., M.B., F.R.C.S. Can.
Le Mesurier, A. B., M.B.
Robinson, T. A., M.D., C.M. McG.
Ross, J. W., M.S. Minn., M.D.
Wookey, H. W., M.B., F.R.C.S.

25 Demrs., 17 Fellows.

Therapeutics

Farquharson, R. F., M.B., F.R.C.P. Can. Asst. Prof.
Gardiner, W. J., M.B. Assoc.
Shields, H. J., B.A., M.B. (Anæsth.) Assoc.

5 Demrs., 9 Assts., 1 Fellow.

Dentistry

Clinical Dentistry

Mason, A. D. A., D.D.S. Dean and Prof.
Ellis, R. G., B.D.S. Adel., D.D.S., B.Sc.(Dent.) Assoc. Prof.
Switzer, W. G., D.D.S. Assoc. Prof.
Hoskin, H. A., D.D.S. Assoc. Prof.
Krueger, L. F., D.D.S. Iowa Assoc. Prof.

14 Assocs.

Crown and Bridge Prosthesis

Ante, I. H., D.D.S. Prof.

Dental Anatomy

Crouch, S. S., D.D.S. Prof.

1 Assoc.

Dental Bibliography

Paul, E. W., D.D.S. Librarian.

Dental Pathology and Bacteriology

Cameron, G. C., M.D., F.R.C.P. Can. Prof.

1 Assoc.

Dental Praxis

Conboy, F. J., D.D.S. Prof.
Kilburn, L. A., D.D.S. Assoc. Prof.
Rous, C. C., B.A.Sc. Lectr.

Dental Surgery and Anæsthesia

Paul, E. W., D.D.S. Prof.
Johnson, J. H., D.D.S. Assoc. Prof.

1 Assoc.

Dental Technol. and Metallurgy

Cowling, T., M.A. McM., D.D.S., B.Pæd. Prof.

Rous, C. C., B.A.Sc. Lectr.

1 Instr., 1 Demr.

Medicine

Clarkson, F. A., M.B., F.R.C.P. Can. Assoc. Prof.

Operative Dentistry

Mason, A. D. A., D.D.S. Dean and Prof.

Ellis, R. G., B.D.S. Adel., D.D.S., B.Sc. (Dent.) Assoc. Prof.

1 Assoc., 2 Demrs.

Oral Surgery

Risdon, F. E., M.B., D.D.S., F.R.C.S. Can. Assoc. Prof.

Orthodontia

Corrigan, C. A., D.S.O., D.D.S. Prof.

1 Assoc.

Peridontology

Box, H. K., D.D.S., Ph.D. Research Prof.

Williams, C. H. M., D.D.S., B.Sc. (Dent.) Assoc. Prof. (part-time).

1 Assoc., 1 Demr.

Preventive Dentistry

..... Prof.

2 Assoc., 1 Asst.

Prosthodontia

Lott, F. M., D.D.S., M.Sc. (Dent.) Prof.

Godfrey, R. J., D.D.S. Assoc. Prof.

Cavanagh, W. D., D.D.S. Lectr.

Radiography and Photography

1 Assoc.

School of Hygiene

v. also Medicine

FitzGerald, Prof. J. G. (Hyg. & Prev. Med.) Director.

Defries, Prof. R. D. (Hyg. & Epidemiol.) Assoc. Director.

Fraser, Prof. D. T. (Hyg. & Prev. Med.) Assoc. Director, Connaught Labs.

Best, Prof. C. H. (Physiolog. Hyg.) (v. also Physiol.) Actg. Head of Dept., Assoc. Director, Connaught Labs.

Moloney, P. J. (Chem. in relation to Hyg.) Assoc. Prof., Asst. Director, Connaught Labs.

McKinnon, N. E., M.B. (Hyg. & Epidemiol.) Assoc. Prof., Asst. Director, Connaught Labs.

MacLean, D. L., M.B., B.Sc. (Med.), D.P.H. (Physiolog. Hyg.) Asst. Prof.

McHenry, E. W., M.A., Ph.D. (Physiolog. Hyg.) Asst. Prof.

Fraser, Frieda H., B.A., M.B. (Hyg. & Prev. Med.) Asst. Prof.

Craigie, J., M.B., Ch.B., Ph.D., D.P.H. St. And. (Epidemiol.) Asst. Prof.

Ross, Mary A., B.A. Dal., M.A., Ph.D. (Biometrics) Asst. Prof.

Cunningham, J. G., B.A., M.B., D.P.H. (Indust. Hygiene) Lectr.

School of Nursing

Russell, Edith K., B.A. King's, B.Pæd. Director.

Emory, Florence H. M. Asst. Director.

Chute, Winnie L., B.A. Acadia Lectr.

Fidler, Nettie D. Lectr.

Millman, Mary B., B.A. (Pub. Health N.) Lectr.

Percy, Dorothy M. Lectr.

Wilson, M. Jean, B.A. Sask. Lectr.

Ontario College of Education

Althouse, J. G., M.A., D.Pæd. Dean.

Educational Research

Sandiford, P., M.Sc. Manc., Ph.D. Col. (Ed. Psych.) Dir. and Prof.

Long, J. A., B.A. McM., Ph.D. Col. (Ed. Psych.) Assoc. Prof.

Cameron, M. A., M.A. Brit. Col., Ph.D. Asst. Prof.

Educational Methods

Carlisle, J. O., M.A. (Classics) Prof. and Supervisor of Practice Teaching.

Coombs, F. E., M.A. (Elem. Edn.) Prof.

Cornish, G. A., B.A. (Science) Prof.

Jones, G. M., B.A. (Eng. and Hist.) Prof.

Lougheed, W. J., M.A., B.Pæd. (Maths.) Prof.

Bennett, W. G., B.A., B.Com. Qu., A.M. Chic., D.Pæd. (Com. Subjects) Assoc. Prof.

Ockley, Laura L., B.A. (H.Sc.) Assoc. Prof. and Supervisor of Women Students.

Diltz, B. C., M.A. Qu. (Eng. and Hist.) Assoc. Prof.

St. John, Helen B., B.A. (Mod. Langs.) Asst. Prof.

Bramfitt, G. N., B.A., B.Pæd. (Music) Lectr.

Davies, N., B.A. McM. (Agric.) Lectr.

Halbus, F. W., B.A. McM. (Phys. Edn.) Lectr.

Marsh, Annette, A.R.C.A. Lond. (Art) Lectr.

Robertson, Alicia E. (H.Sc.) Lectr.

McLachlan, A. T. (Shop Work) Lectr.

Taylor, G., B.E. Syd., B.A. Camb., D.Sc. Syd. (Geog.) Spl. Lectr.

1 Instr.

Library School [Director.

Barnstead, Winifred G., B.A. Dal.

Bassam, Bertha, B.A. Qu. Asst. Prof.

Silverthorn, Mary E., M.A. Asst. Prof.

7 Instrs.

COLLEGES OF THE UNIVERSITY

UNIVERSITY COLLEGE. Principal—M. W. Wallace, B.A., Ph.D., LL.D.; Registrar—W. J. McAndrew, M.A.

VICTORIA COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

TRINITY COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

ST. MICHAEL'S COLLEGE, in the Faculty of Arts of the Univ., v. *infra*.

FEDERATED UNIVERSITIES

UNIVERSITY OF TRINITY COLLEGE, *see* p. 569.

VICTORIA UNIVERSITY, *see* p. 570.

FEDERATED COLLEGES

ST. MICHAEL'S COLLEGE. Superior—Rev. E. J. McCorkell, M.A.; Registrar—Rev. B. Sullivan, M.A. Other Teachers: the Profs., etc., marked (M.) in above list, also Rev. V. Burke, B.A., Rev. B. N. Forner, B.A., and Rev. G. V. Sharpe, B.A.

KNOX COLLEGE, WYCLIFFE COLLEGE, and EMMANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—Rev.

W. W. Bryden, M.A., D.D.; P. Guthrie, B.A. (2) Wycliffe—Rev. F. D. Coogan, M.A.; Rev. B. W. Horan, M.A., B.D.; Rev. W. E. Taylor, M.A., Ph.D. (3) Emmanuel—Rev. K. H. Cousland, M.C., M.A., B.D.; Rev. R. Davidson, M.A., Ph.D., D.D. (Principal); Rev. J. Dow, M.A., D.D.; Rev. F. W. Langford, B.A., M.R.E., D.D.; Rev. J. Line, M.A., S.T.D., D.D.; Rev. J. H. Michael, M.A., D.D.; Rev. A. S. Orton, M.A., S.T.M., D.D.; Rev. E. W. Wallace, M.A., D.D.

AFFILIATED COLLEGES

ONTARIO AGRICULTURAL COLLEGE, GUELPH. Estabd. 1874. President—G. I. Christie, B.S.A., D.Sc. Registrar—A. M. Porter, B.S.A.

The 3 main divisions are: Agriculture, Home Economics and School of Bakery. Courses in Agric.: Associate Diploma, 2 yrs.; B.S.A. degree, 4 yrs.; Summer School for Teachers; also short courses. Research and investigation form an important part of the work. Courses in Home Econ. at Macdonald Institute: Diploma, 2 yrs.; Associate Diploma, 2 yrs.; also short courses. Course in Baking at Trent Institute, 6 months.

FEES. Tuition—Agric. Students resident in Ontario: 1st, 2nd and Intermed. yr., $20 p.a., 3rd and 4th yr., $50 p.a. Students from other Provinces, including Newfoundland, and from other parts of the British Empire, $50 p.a. All others, $100 p.a. Laboratory, $1.50-$5 p.a. Contingency fees, $5-$10 p.a. Home Econs., $30-$60 p.a.

Rooms for over 500 students, men and women, on College campus. Board and room, $5.50-$6 per wk. Fellowships available for graduate study.

STAFF. *Agric. Econ.*: Prof. W. M. Drummond, M.A.; C. W. Riley, M.S.A., Assoc. Prof.; A. Stewart, B.A., Lectr. *Agric. Eng.*: Prof. W. C. Blackwood, B.A.Sc.; R. R. Graham, B.A., B.S.A., E. W. Kendall, B.S.A., Assoc. Profs.; R. C. Moffatt, M.A., F. L. Ferguson, B.S.A., Asst. Profs. *Animal Husbandry*: Prof. R. G. Knox, B.S.A.; G. E. Raithby, B.S.A., Assoc. Prof.; E. C. Stillwell, B.S.A., M.S., M. W. Staples, B.S.A., M.S., Lectrs. *Animal Nutrition*: H. D. Branion, M.A., Ph.D., Assoc. Prof. *Bacteriol.*: Prof. E. C. Beck, B.S.A., M.A.; A. Davey, B.S.A., Assoc. Prof.; D. B. Shutt, B.S.A., E. H. Garrard, B.S.A., Lectrs. *Botany*: Prof. J. E. Howitt, M.S.A.; R. E. Stone, B.Sc., Ph.D., Assoc. Prof.; D. R. Sands, B.S.A., M.S.. Asst. Prof.; W. G. Evans, B.S.A., M.S., Lectr. *Chem.*: Prof. G. N. Ruhnke, M.S.A.; H. L. Fulmer, B.S.A., M.A., H. G. Bell, B.S.A., Assoc. Profs.; M. C. McNab, M.A., Ph.D., Asst. Prof.; L. R. Bryant, B.A., L. A. Birk, B.S.A., Lectrs. *Dairy Husbandry*: Prof. W. H. Sproule, B.S.A.; H. A. Smallfield, B.S.A., M.S., Asst. Prof. *English*: Prof. O. J. Stevenson, M.A., D.Pæd., F.R.S.C.; E. C. McLean, M.A., Assoc. Prof.; V. C. Lowell. B.S.A., K. M. Gunvaldsen, M.A., Lectrs. *Entomol.*: Profs. L. Caesar, B.A., B.S.A., A. W. Baker, B.S.A.; R. H. Ozburn, B.S.A., M.S., R. W. Thompson, B.S.A., H. W. Goble, B.S.A., M.S., G. G. Dustan, B.S.A., M.S., Lectrs. *Field Husbandry*: Prof. G. P. McRostie, M.S.A., Ph.D.; O. McConkey, B.S.A., M.S., Ph.D., Assoc. Prof.; A. W. Mason, B.S.A., R. Keegan, B.S.A., J. Laughland, B.S.A., Lectrs. *Horticulture*: Prof. E. F. Palmer, B.S.A.; A. H. Tomlinson, B.S.A., Assoc. Prof.; T. H. Jones, B.S.A., A. H. Richardson, M.A., M.F., H. W. Whiteside, B.S.A., J. H. L. Truscott, M.Sc., Ph.D., G. H. Dickson, B.S.A., E. A. H. Banks, B.S.A., M.S., Lectrs. *Poultry*: Profs. W. R. Graham, B.S.A., F. N. Marcellus, B.S.A., B.V.Sc., V.S.; E. S. Snyder, B.S.A., M.S., Asst. Prof.

Extension Department. Director, J. Buchanan, B.S.A.; W. D. Tolton, B.S.A., Asst. The staff of the Dept. renders services to individuals and organizations of the province. Plans for the beautification of rural schools, recreation

grounds, and farm homes are suggested; lectures are given to horticultural societies, vegetable and fruit growers' associations, cooperative and commercial storage organizations, etc.; the staff advise and act as judges at horticultural shows; and educational and research work is done in the greenhouses.

Division of Home Economics—Macdonald Institute. *Directress*, Olive R. Cruikshank, B.A. 11 other staff.

School of Baking—Trent Institute. *Director*—.....

STUDENTS. The total number of registered students (short courses included) was 3107.

ONTARIO COLLEGE OF PHARMACY, TORONTO. (For Phm.B. degree.) Dean —R. O. Hurst, Phm.B. Registrar-Treasurer—M. R. MacFarlane.

STAFF. *Pharm.*: Prof. R. O. Hurst, Phm.B.; C. C. Clark, Phm.B., Asst. Prof. *Materia Medica*: Prof. P. L. Scott, M.B.; C. C. Clark, Phm.B., Asst. Prof. *Eng.*: E. L. Daniher, B.A., W. L. C. Richardson, B.A., Instrs.

STUDENTS. The total number of registered students was 222.

ONTARIO VETERINARY COLLEGE, GUELPH. (For B.V.Sc. degree.) Principal—C. D. McGilvray, M.D.V., D.V.Sc.

STAFF. *Contag. Diseases, Sanit. Sc.*: C. D. McGilvray, M.D.V., D.V.Sc. *Surg. Anat.*: W. J. R. Fowler, V.S., B.V.Sc. *Diseases of Cattle, Obstet., Therap.*: R. A. McIntosh, M.D.V., B.V.Sc. *Zool., Histol., Meat Hygiene*: H. E. Batt, V.S., B.V.Sc. *Path., Bact.*: F. W. Schofield, B.V.Sc., D.V.Sc. *Physiol.*: L. Stevenson, B.V.Sc., M.S. *Milk Hygiene, Poultry Diseases*: J. S. Glover, V.S., B.V.Sc. *Path., Parasit.*: A. A. Kingscote, B.V.Sc., D.V.Sc. *Canine and Feline Diseases*: F. J. Cote, B.V.Sc. *Sporad. Diseases, Hygiene*: H. R. Potter, B.V.Sc. *Anat., Hygiene*: V. R. Brown, B.V.Sc. *Bact.*: T. L. Jones, B.V.Sc., M.Sc. *Diseases of Fur Animals*: E. R. Bowness, B.V.Sc. *Jurisp.*: R. S. Clark, K.C.

STUDENTS. The total number of registered students was 240.

ONTARIO COLLEGE OF ART.—Principal—F. S. Haines, R.C.A., O.S.A.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO.

GENERAL INFORMATION

An appropriation of 500,000 acres of land for the support of 4 grammar schools and a Univ. in Upper Canada was made in 1798, and a Royal Charter was granted in 1827 for a "King's College" with the privileges of a Univ., but it was not until 1843 that the College was inaugurated. For early history, see *Yearbook*, 1929.

LIBRARY, 352,155 vols. and 135,395 pamphlets. 3700 periodicals and serials received. The (Science) Library of the Roy. Can. Inst. is housed in the same building. MUSEUMS: The Royal Ontario Museums—Archæology (of special importance is the Chinese Collection, which illustrates the entire range of Chinese art and archæology; an extensive Chinese library provides access to the literature of China for the study of these subjects), Geology, Mineralogy, Palæontology, and Zoology; departmental museums; Trinity has a Nat. Hist. and Archæol. Museum of its own; the Agric. and Vet. Colleges, Knox, and the Faculty of Dentistry have each one.

LABORATORIES: in all the Science depts. BANTING INST., and CONNAUGHT LABORATORIES FOR PREVENTIVE MED., v. App. III. B. 1. DAVID DUNLAP OBSERVATORY, Richmond Hill, contains a 74-in. reflecting telescope which may be used either as a Cassegrain or a Newtonian, the largest in the British Empire

and second largest in the world. HOSPITALS available for Clinics: General, 1165 beds; Children's, 420; St. Michael's (Roman Catholic), 690; Western (General), 508; Psychiatric, 60; Isolation, 425.

FACULTIES. Arts, Medicine, Applied Science and Engineering (Depts.—Archit., Civil E., Mining E., Mech. E., Eng. Physics, Chem. E. and Applied Chem., Elec. E., Metall. E., Mining Geol.), Household Sc., Education, Forestry, Music, School of Graduate Studies, Dentistry, School of Nursing. DEPARTMENTS.—Social Science, University Extension.

SECRETARIES OF FACULTIES: (Arts) A. B. Fennell, M.C., M.A.; (Med.) E. S. Ryerson, M.D., C.M.; (Applied Sc. and Engin.) W. S. Wilson, B.A.Sc.; (Household Sc.) Clara C. Benson, B.A., Ph.D.; (Educ.) Lyda Swinarton; (Forestry) R. C. Hosie, B.Sc.F., M.A.; (Music) Annie W. Patterson, B.A.; (School of Graduate Studies) Nora Mackenzie; (Dentistry) C. C. Rous, B.A.Sc. (Soc. Sc.) Edna B. Bambridge; (School of Nursing) E. Norma L. Mortimer, B.A.

UNIVERSITY MATRICULATION BOARD. A Board created by the Univs. of Toronto, Queen's, McMaster, W. Ont., and Ottawa conducts and controls their annual Matricn. examns. The Dept. of Educn. of Ontario provides the machinery for holding these examns., and the Registrar of the Dept. is Secy. of the Board. A report signed by all members of the staff of the school concerned as to the standing of their candidates is considered in determining the results of the examn.

The subjects of Pass and Honour Matricn. are (1) Latin, (2) Engl., (3) Hist., (4) Maths., (5) Greek, (6) French, (7) German, (8) Spanish or Italian, (9) Physics and Chem., or (10) Agric., (11) Zool. and Bot. (Hon. Matric. only), (12) Music. For admission to Arts it is necessary to pass in (1) to (4) and any two of (5) to (10) with honour standing in at least 5 specified subjects, (2) and either (1) or (4) being compulsory. To obtain this honour standing a student must spend at least one yr. at school after completing Pass Matrn. In certain cases foreign students may substitute their native lang. for Greek or French or German. Music is accepted as an option for Ancient Hist. (the subject of one of the two Hist. papers, the other being Canadian Hist.).

For admission to Med. the requirements are (1) to (4), (9) or (10), and any one of (5) to (8), with honour standing in (2), (4), (6) or (7), and (9) or (11); to Applied Sc.—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), (9) or (10), and one of (1), (5) to (8); in Household Science —(2), (3), (4), three of (1), and (5) to (10), with honour standing in at least 5 specified subjects; in Forestry—(2), (3), (4), and any three of (1) and (5) to (10), with honour standing in (2), (4), one of (6) or (7), and (9) or (11); in Music —(2), (3), (4), and three of (1) and (5) to (9); in Dentistry—(1), (2), (3), (4), (9) or (10), and one of (5) to (8), with honour standing in (2), (4), and one of (6) or (7), and (9) or (11).

Minimum age for admission to the Faculty of Arts, 16; Med., 17; Appl. Sc., 17; House. Sc., 16; Educn., 19; Forestry, 17; Dentistry, 16.

DEGREE COURSES. 2 yrs.—Phm.B.; 3 yrs.—Pass B.A., Mus.B.; 4 yrs.—Honour B.A., B.Com., B.A.Sc., B.Sc. (Med.), B.Sc. (Dent.), B.H.Sc., B.Sc.F., B.S.A. and B.V.Sc. (at Guelph); 5 yrs.—B.Arch., D.D.S.; 6 yrs.—M.D. Combined courses: B.A. and M.D.—8 yrs.

Students from the British Isles will be admitted to Medicine or Applied Sc. on submitting certificates of registration with the General Medical Council of Great Britain or the Institution of Civil Engineers.

The B.Sc. (Med.) may be obtained by Med. students who, after the 4th or

subsequent year of Med. study, having maintained therein a prescribed standard of proficiency, spend a year in an approved course of study, and show facility in reading one modern language besides English.

A student who has already graduated in the Faculty of Arts, Med., or Sci. of a Canadian or other recognized Univ. may complete the course in Dentistry in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergrad. course; and persons holding qualifications obtained in Great Britain or Ireland registrable by the Dental Board of the United Kingdom or the B.D.S. of approved Australian Univs. may be admitted to the Fac. of Dentistry without further examn., and to the final D.D.S. examns. on completing one full session in the Fac. of Dentistry.

Higher Degrees. M.A., obtainable by approved course of graduate study extending over 2 yrs. or, in the case of a B.A. in an Honours course, 1 yr.; Ph.D., open to a graduate in Arts (or, on special conditions, another Faculty) of this or another recognized Univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required.

The M.Com., obtainable by approved course of graduate study extending over 1 to 2 yrs.

M.S. obtainable after 2 yr. course open only to graduates in Med. of a recognized Univ. The D.P.H. course (for Med. graduates) covers 11 months —1 winter and 1 summer session; the Diploma courses in Radiology and in Psychiatry (for Med. graduates) each cover 12 months.

The M.A.Sc. may be obtained by a B.A.Sc. graduate of this Univ. or one who holds an equivalent degree from some other Univ. who pursues a course of advanced study in the Faculty for 1 yr., presents a satisfactory thesis, and passes such examns. as may be prescribed.

The M.Arch. may be obtained by one who holds the degree of B.Arch. or B.A.Sc., or an equivalent degree, under the same conditions as the M.A.Sc. degree.

The professional degrees, C.E., M.E., Mech.E., E.E., Chem.E., Met.E., are open to candidates who, after obtaining the B.A.Sc. or diploma of the Faculty, spend 3 yrs. in the actual practice of one of these branches of engineering, present a satisfactory thesis, and pass examns.

The F.E. may similarly be obtained by one who holds the degree of B.Sc.F., and the M.Sc.F. in 2 yrs.

The B.Pæd. is open to candidates holding an approved degree in Arts, Sci., Agric., Engin., or Comm., and a certif. as teacher valid in one of the Provinces of Canada and issued after a regular course in an approved training school or the equivalent of such certif. and course of training. They must attend the Ontario Coll. of Education during two regular Coll. sessions or three summer sessions, with certain exceptions.

The D.Pæd. is open to graduates in Arts, Science, Agric., Engin., or Comm., of any British Univ. who hold the B.Pæd. degree and a teacher's certif. valid in one of the Provinces of Canada and pass prescribed examns. A thesis is also required, and the candidate must have attended one regular session or a summer course.

B.L.S. (Bachelor of Library Science), 1 yr. course open only to Univ. graduates.

The M.S.A. is open to grads. who have obtained the B.S.A. degree or its equivalent.

The M.Sc. (Dent.) is open to grads. of the Fac. of Dentistry of Univ. of Toronto or those with equivalent standing. It involves at least 2 years' work.

The M.V.Sc. or the D.V.Sc. is open to grads. who have obtained the B.V.Sc. degree or its equivalent.

The Mus.D. is open to a Mus.B. of this or another Univ. of 3 yrs.' standing.

The LL.B. is a 5 yr. course of study taken partly in the faculties of Arts and Law, and partly in the Osgoode Hall Law School.

The LL.M. may be obtained by an LL.B. graduate of the Univ. or an approved Univ., of at least 1 yr.'s standing, who passes the prescribed examns. and presents a satisfactory thesis.

The Univ. publishes annually an announcement of *Graduate Courses*. *All communications on the subject must be addressed to the School of Graduate Studies.*

TRAINING OF TEACHERS. Courses are provided for Teachers' certificates of several grades, including the Household Science and the Physical Culture Teachers'. The Educn. Dept. of Ontario grants certifs. on the completion of the prescribed courses, entitling the holders to teach in the High Schools. All teachers for High Schools and Collegiate Institutes must spend at least 1 yr. in the College of Education.

FEES. Students proceeding to the B.A. and enrolled in one of the Colleges of the Univ. attend lectures of Univ. Profs. and Lectrs. in the Fac. of Arts without payment of fees except for lab. supplies. The College Fees, which entitle students to attend degree courses in their respective Colleges, are $125 p.a.; B.Com., $165 p.a. Medical students pay for tuition, lib., lab. supply, hospital and annual examn., 1st yr., $175 p.a., 2nd and 3rd yrs., $250 p.a., 4th, 5th, and 6th yrs. $275 p.a. Applied Sc. and Engin., $225 p.a.; Household Sc., $150 p.a.; Library School, $75 or $150 p.a.; Forestry, $150 p.a.; Dentistry, $250 ($175 for 1st yr. only) p.a.. Diploma Fees: Certificate courses in the Coll. of Educ., $50 p.a.; Dip. Pub. Health, $200 p.a.; Dip. in Radiol., $200 p.a.; Dip. in Psychiatry, $200 p.a.; Dent. Nursing, $100 p.a.; Social Sc., $125 p.a.; School of Nursing, $100 p.a.; Physiotherapy, $150 p.a.; Occupational Therapy, $150 p.a.; Aerial Navig., $100 p.a.

SCHOLARSHIPS. Numerous fellowships, scholarships, bursaries, and prizes are available. In the Fac. of Arts there are 29 scholarships for students in their 1st yr. (1 open to women only), 31 in 2nd yr. (1 open to women only), between 30 and 40 in 3rd yr., 8 in 4th yr., and a number open to students of any yr. In the Fac. of Med. there are 21 fellowships, scholarships, and bursaries, of which 6 are open only to graduates. In the Fac. of Applied Sc. and Engin. 19, 3 being for graduates only. Several in the Facs. of Forestry and Dentistry, and in the Dept. of Soc. Sc.; in the Fac. of Household Sc., 2.

For post-graduate scholarships and fellowships, etc., open to non-members of the Univ., *see* App. II.

RESIDENCE. University Houses accommodate 150 men, rent, $3.25 a week; Univ. Coll. Houses, residence for 30 men, rent $3.25 a week; residence and board for women (190), about $9 a week; Victoria Coll. Halls for 140 men, about $9 a week, and 160 women, from $272 p.a.; Trinity Coll. provides for 120 men and 75 women; St. Michael's (R.C.) has also residences for men and women.

HART HOUSE, the gift of the Massey Foundation in memory of Mr. Hart Massey, affords all the facilities of a first-rate club for men undergrads. It includes many halls and rooms, providing for all the activities in the undergrads.' life other than work in the lecture room. The Students' Admin. Council and the Students' Christian Movement have their headquarters in the House; it also contains a wing with the Athletic Assoc. offices, gymnasium, swimming-

pool, etc., where formal physical training is carried on, as well as other athletic activities. Annual fee, $12. Warden—J. B. Bickersteth, M.A.

WOMEN'S UNIONS. The Arts Colleges provide centres for the social activities of the undergraduate women of their respective colleges; these have common rooms, library, dining-hall and guest rooms.

MEDICAL ADVISER FOR WOMEN STUDENTS—Edith Gordon, B.A., M.B., D.P.H.

UNIVERSITY EXTENSION AND PUBLICITY. (1) Classes are held in the evenings and on Saturdays, for teachers proceeding to the B.A. degree. (2) Summer Session in Arts and Pedagogy for teachers. (3) Extension lectures throughout the Province. (4) Evening classes offering continuous courses in sixty subjects, without Univ. credit. (5) Courses in Public Administration. (6) Correspondence courses in commercial subjects. (7) Two-yr. diploma courses in Occupational Therapy, in Physio-therapy, and in Aerial Navigation. (8) Workers' Educational Association classes. (9) Short refresher courses for nurses and others. (10) Publication and distribution of various bulletins and pamphlets for the Univ. (11) Univ. exhibits. (12) Radio lectures. Total no. attending Extension lectures, 30,789. Total no. in Extension courses and classes, 6712. Director—W. J. Dunlop, B.A., B.Pæd.

PUBLICATIONS. *President's Annual Report*; *Board of Governors' Report*; *Calendars*, April-May; *Bulletins of the Dept. of University Extension*; *Medical Bulletin*; *Univ. of Toronto Monthly*; *Univ. of Toronto Quarterly*; *Can. Historical Review*; *Can. Journal of Econs. and Polit. Sc.*; *Univ. of Toronto Law Journal*; *Univ. Studies*; Students' Mags.—*'Varsity*, *Torontonensis*.

THE YEAR 1937–38

BENEFACTIONS. Reuben Wells Leonard Bequest, $57,350.69. Rockefeller Foundation, $15,009.90 for Child Research and Parent Education and $9,993.99 for School of Nursing. Eaton Endowment, annual payment, $25,000. Sir Robert Falconer Fund, $16,115. Ontario Mining Association Grant, Silicosis, $10,000. Carnegie Corporation, $4995.31 for Fine Art, $1498.59 for Workers' Educational Research and $552.06 for Physiology Research. E. A. Wallberg Memorial Fund, $7036.57. Anonymous for Organic Chemistry, $5000. Canada Packers' Donation, $2500, and J. S. McLean, $2500, for J. S. McLean Fellowship. Reuben Wells Leonard Fellowship and Schols., $3700. W. P. Mustard Schol., $3000. Geophysics Research Fund, $2400. Eli Lilly Fellowship. $2,002.19, Graduate Fellowships donated by: Estate late Sir Edward Kemp, $1000, Imperial Oil, Ltd., $500, Sir Joseph Flavelle, $250. Sir Joseph Flavelle, $750, and E. R. Peacock, $750, for Flavelle-Peacock Retiring Allowance. Bickle Bursary, $1040. D. A. Dunlap Memorial Schol., $1000. Arthur Cohen Schols., $1000. Standard Brands Research Fund, Chemistry, $999.07. Medical Society Bursary, $600. Wm. Lowell Putnam Prize Fund, $505.31. J. W. L. Forster Library Fund, Fine Art, $500. Emerson Wickett Memorial Schol., $500. Sadowski Schols., $500. John Northway Memorial Fellowship, $500. Sir Edmund Walker Schol., $450. Robert Simpson Company Schols., $450. University College Alumni Matriculation Schol., $400. Gertrud Davis Exchange Fellowship, $400. Robert Bruce Schol., $387.64. Johannesburg Chamber of Mines Donation, $351.75. J. A. Findlay Schol., Mech. Engin., $330. Toronto League for Race Betterment Schol., $300. School of Nursing Undergraduate Bursary Fund, $300. S. R. Parsons Schol., Commerce and Finance, $250. Robert A. Bryce, Esq., U.T.S. Engin. Schol., $250. J. B. Willmott Schols. in

Dentistry, $250. Percy Hermant Schol., $250. Anonymous for Mary Keenan Award, $200. Delta Phi Epsilon Bursary, $200. Pan-Hellenic Association Prizes, $150. Boiler Inspection and Insurance Company Schol., Mech. Engin., $150. Anonymous for Special Research, Biochemistry, $125. Sir John Eaton Memorial Schol., Univ. Schools, $120. University College Alumnæ Schol., $100. Maurice Hutton Matriculation Schol., $100. University Tours Association Schol., $100. Darling and Pearson Prizes in Architecture, $100. Herbert Willson Schol., $100. Toronto Brick Company Prizes, Architecture, $100. Ontario Association of Architects Schol., $100. George Kennedy Schol., $83.10. Sarah Kennedy Schol., $83.10. St. Margaret's College Alumnæ Schol., $75. Ramsay Wright Schol., $53.36. Hollywood Theatre Prizes in French, $50. Dr. R. A. Reeve Prize in Medicine, $50. Toronto Women's League of the United Synagogue Schol., Medicine, $50. Public Speaking Association Bursary, $50. F. W. Jarvis Bursaries, $50. Hon. Chas. McCrea for Dent McCrea Schol., $50. Justice Riddell, for Riddell Schol., Law, $30. Lambda Chi Alpha Alumni of Toronto, for Ronald S. Saddington Medal, $26.75. Hon. Dr. J. A. Faulkner, for Faulkner Medal, $26.53. Labour Research Institute Prize, $25. Engineering Institute of Canada Prize, $25. Ontario Medical Association Prize, $25. U. C. French Society Prize, $25. American Society of Heating and Ventilating Engineers, $25. Univ. Coll. Alumni Prize, $25. British A.A.S. Fund, $21.81. Maurice Cody Memorial Schol., Univ. Schools, $10. Alumnæ Prize in English, $10.

NEW BUILDINGS. In September 1938, a new residence was opened for St. Hilda's Coll., with accommodation for about 75 students and the necessary staff. St. Hilda's Coll. is now the residence for women enrolled in Trinity Coll. in the Univ. of Toronto. Second unit in the new buildings for St. Michael's Coll., providing dining-halls and common rooms for staff and students, and quarters for visitors, to be opened officially in August 1939.

NEW COURSES. Two-year diploma course in Aerial Navigation for the training of pilots and operators.

VISITING TEACHERS. Prof. W. C. de Vane (English), Cornell Univ., Ithaca, N.Y.; Prof. H. J. Weigand (German), Yale Univ., New Haven, Conn.; Alexander Lectureship: President, C. W. Stanley, Dalhousie Univ., Halifax, N.S., "Matthew Arnold"; Donald C. Balfour Lectureship in Surgery: G. Gordon Taylor, O.B.E., Senior Surgeon, Middlesex Hospital, London, England, "Gastric Hæmorrhage"; Charles Mickle Fellowship: Sir Edward Mellanby, K.C.B., Sec.-General, Medical Research Council of Great Britain, "Research on Nutritional Problems."

VISITS OF STAFF TO OTHER UNIVERSITIES. Prof. E. K. Brown lectured on English Literature at Western Reserve Univ., Cleveland, O.; Prof. B. Fairley lectured on "Goethe and Charlotte von Stein," at Univ. of Mich., Ann Arbor, Mich.; Prof. H. A. Thompson lectured on "Excavation in the Agora at Athens," at the Universities of Oxford, Cambridge and London.

RETIREMENTS. Prof. P. Edgar (English); Prof. H. C. Simpson (English); Prof. H. E. T. Haultain (Mining Engineering); Dr. H. A. Fricker (Music).

RESIGNATIONS. Prof. I. M. Biss (Pol. Sci.); T. C. Graham (Mech. Eng.); Miss E. M. Stuart (Nursing); Miss H. Stantial (Chem.); V. Lange (German); J. A. Kinnear (Obstet. and Gyn.).

DEATHS. Sister M. Estelle (French); G. R. Pirie (Pædiatrics); C. A. Kennedy (Dent.).

HONORARY DEGREES. *LL.D.*—The Hon. Cordell Hull, Secretary of State of the United States of America; Sir Howard D'Egville, K.B.E., Secretary of the Empire Parliamentary Association.

STUDENTS. The total number of registered students was 7860.

DEGREES. B.A., 622; M.A., 120; Ph.D., 35; B.Com., 30; M.D., 131; B.Sc. (Med.), 6; M.S., 3; B.A.Sc., 164; M.A.Sc., 5; C.E., 1; E.E., 1; B.Arch., 11; B.H.Sc., 16; B.Pæd., 27; D.Pæd., 1; B.L.S., 50; B.Sc.F., 6; Mus.Bac., 9; D.D.S., 31; B.Sc. (Dent.), 3; LL.B., 1; B.S.A., 106; M.S.A., 9; B.V.Sc., 52; D.V.Sc., 1; Phm.B., 91.

UNIVERSITY OF TRINITY COLLEGE, TORONTO

Founded 1851

(*Federated with the University of Toronto.*)

VICE-CHANCELLOR AND PROVOST—Rev. F. H. COSGRAVE, M.A., D.C.L.
DEAN OF RESIDENCE—Rev. G. F. KINGSTON, M.A., B.D., Ph D.
REGISTRAR—J. N. WOODCOCK, M.A. Ox.
DEAN OF DIVINITY—Rev. J. LOWE, M.A.
LIBRARIAN—S. M. ADAMS, M.A.
BURSAR—ELLIOT G. STRATHY.

PROFESSORS AND LECTURERS: The Profs., etc., marked (T.) in the consolidated list of the University of Toronto.

The University of Trinity College, founded 1851, Royal Charter, 1852, federated with the Univ. of Toronto, 1904, now confines its Univ. work to the two Faculties of Arts and Divinity. As an Arts College it forms an integral part of the Fac. of Arts of the Univ. of Toronto. The courses of instruction are prescribed by that Univ. Instruction is given in the Coll. in all subjects assigned to the Arts Colls. These include Greek, Latin, Greek and Roman Hist., Ancient Oriental Hist., Oriental Langs., Engl., German, French, Ethics, and Religious Knowledge. Instruction in other subjects of the Arts Courses is given by the Univ. Students of the Coll. receive the degrees of the Univ. of Toronto at the conclusion of their courses. As a Theological Coll., Trinity maintains its own Fac. of Divinity and confers degrees.

LIBRARY, 35,000 vols.

PUBLICATIONS. *Calendar* (May); *Trinity Univ. Review*, monthly; *St. Hilda's Quarterly Chronicle.*

THE YEAR 1937–38

BENEFACTIONS. $206,550 subscribed by graduates and friends for erection of a new residence building for St. Hilda's College, a residence for women students enrolled in Trinity College and undergraduates of the University of Toronto. The new building in Devonshire Place provides accommodation for 75 women students.

DEATH. Sydney H. Jones, Bursar of the College since 1907.

RETIREMENT. Prof. H. C. Simpson (English).

STUDENTS. Full-time: 376, including 14 graduate students in Divinity. Occasional: 6.

DEGREES. Arts Degrees listed under the University of Toronto.

VICTORIA UNIVERSITY, TORONTO

Incorporated 1836

(*Federated with the University of Toronto.*)

Telegraphic Address : Vicollege, Toronto.

CHANCELLOR AND PRESIDENT—Rev. E. W. WALLACE, M.A., D.D.
PRINCIPAL, VICTORIA COLLEGE—W. T. BROWN, M.A., Ph.D.
PRINCIPAL, EMMANUEL COLLEGE—Rev. R. DAVIDSON, M.A., Ph.D., D.D.
REGISTRAR—Prof. H. BENNETT, B.A., Ph.D.
LIBRARIAN—Rev. F. L. BARBER, M.A., Ph.D.

TEACHING STAFF

ARTS (Victoria College)

[*See* the consolidated list under Toronto, names marked (V.).]

THEOLOGY (Emmanuel College)

Church History
Cousland, Rev. K. H., M.C., M.A. Ox., B.D. Prof.

Ethics [Ryerson Prof.
Lane, W. B., M.A., Ph.D.

Homiletics and Pastoral Theology
Orton, Rev. A. S., M.A., S.T.M., D.D. Margaret Cox Prof.

Missions
Wallace, Rev. E. W., M.A., D.D. Prof.

New Testament Lit. and Exegesis
Michael, Rev. J. H., M.A., D.D. Geo. A. Cox Prof.
Dow, Rev. J., M.A., D.D. Prof.

Old Testament Lit. and Exegesis
Davidson, Rev. R., M.A., Ph.D., D.D. Eliza Phelps Massey Prof.

Philosophy and History of Religion [Prof.
Line, Rev. J., M.A., S.T.D., D.D.

Public Speaking
McMullen, Rev. G. A., B.A. Lectr.

Religious Pedagogy
Langford, Rev. F. W., B.A., M.R.E., D.D. Prof.

Systematic Theology
..... Prof.

GENERAL INFORMATION

In 1928, by Act of the Legislature of the Province of Ontario, Victoria University, originally founded as the Upper Canada Academy in 1836, received an amended charter by which it continues in federation with the University of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist, and Presbyterian Churches in Canada), and includes within itself, under one Board of Regents and one Senate, two Colleges, Victoria College in Arts and Emmanuel College in Theology, the latter formed by the union of the Victoria University Faculty of Theology with Union Theological College. For early history, see *Yearbook* for 1929.

LIBRARY. Special features—Canadian verse and Tennysoniana (C. C. James's collections), Methodism in Canada, Education in Ontario.

COURSES. 3 yrs. for Pass B.A.; 4 yrs. for General Course and Honour Courses; 3 yrs. for B.D., subsequent to graduation in Arts; 3 yrs. for Diploma in Theol., subsequent to 3 or 4 yrs. in Arts.

HOSTELS for 225 men and 160 women students.

PUBLICATIONS. *Theological Calendar* (May); *Bulletin* (June); *Acta Victoriana*, a students' monthly.

THE YEAR 1937–38

RETIREMENTS. Rev. Alfred John Johnston (Emmanuel College); Oscar Pelham Edgar (Victoria College).

RESIGNATION. Rev. J. Macleod, on appt. to Chair of Christian Dogmatics at Univ. of Aberdeen.

HONORARY DEGREES. *D.D.*—Rev. John Maurice Gregg Mutch, M.A., B.D.; Rev. Raymond T. Richards, B.A., B.D.; Rev. Alexander Armstrong Scott, M.A., B.D., B.Pæd.; Rev. Archer Wallace, M.A.

STUDENTS. Full-time: 865. Occasional: 4.

DEGREES. *Theology*—B.D., 5; Diplomas, 21. *Arts*—(conferred by Univ. of Toronto, see consolidated list).

UNIVERSITY OF WESTERN ONTARIO, LONDON, ONT.

Founded 1878

VISITOR—His Honour the LIEUT.-GOVERNOR OF ONTARIO.

CHANCELLOR—Col. The Hon. HENRY COCKSHUTT, LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—A. T. LITTLE.

PRESIDENT—W. S. FOX, Ph.D. J.Hop., D.Litt. McM., LL.D. Qu., Ottawa, Alta. and Tor., F.R.S.C.

REGISTRAR—Prof. K. P. R. NEVILLE, M.A. Qu. and Harv., Ph.D. Cornell.

LIBRARIAN—F. LANDON, M.A., F.R.S.C.

BURSAR AND EXECUTIVE SECRETARY—Col. W. J. BROWN, B.S.A. Tor., LL.M. Chic., F.C.I.S.

ADVISER OF WOMEN—ADA DOROTHY TURVILLE, Ph.D. Columbia.

TEACHING STAFF

Anatomy

Skinner, H. A., M.B. Tor. Assoc. Prof.

3 Instrs.

Astronomy, v. Maths.

Bio-Chemistry

Macallum, A. B., B.A., M.D., Ph.D. Tor., F.R.S.C. Prof.

1 Instr.

Biology, Applied

Detwiler, J. D., M.A. Qu., Ph.D. Corn. Prof.

Botany

Hart, N. C., M.A. Tor. Prof.

Walker, A. R., M.A. Tor. Prof.

Berdan, Helen B., M.A. Assoc. Prof.

Business Administration

Hensel, P. H., M.B.A. Harv. Prof.

Thompson, W. A., M.B.A. Harv. Assoc. Prof.

Slaght, M., M.B.A. Harv. Asst. Prof.

Carruthers, C. C., B.A., LL.B. (Comml. Law) Lectr.

Chemistry

Gunton, J. A., M.A. McM., Ph.D. Ill. Prof.

Burns, J. W., M.Sc. Qu. Assoc. Prof.

Sivertz, C., B.A.Sc. Br. Col., M.Sc., Ph.D. McG. Assoc. Prof.

Hunten, K. W., Ph.D. McG. Asst. Prof.

4 Assts.

Classics

Neville, K. P. R., M.A. Qu. and Harv., Ph.D. Corn. Prof.

Pemberton, R. E. K., M.A. Camb. Assoc. Prof.

Ralph, J. D., Ph.D. Chic., B.A. Assoc. Prof.

Robson, D. O., Ph.D. Tor. Asst. Prof.

Economic and Polit. Science

Reilly, E. E., B.S.A. Tor., M.S. Wis. Assoc. Prof.

Inman, M. K., B.A. Acad., M.A., Ph.D. Harv. Assoc. Prof.
Harvey, W. B., Ph.D. Chic. Asst. Prof.
Bittner, C. J., Ph.D. Iowa Instr.

Elocution

Walker, Jean I. Instr.

English

Tamblyn, W. F., M.A. Tor., Ph.D. Col. Prof.
Spenceley, J. A., B.A. Tor., M.A. Harv. Prof.
Albright, Evelyn, B.A. Tor., M.A. Chic. Assoc. Prof.
Stiling, F., M.A. Asst. Prof.
Neville, Jean T., M.A. Lectr.
Liddicoatt, Doris, M.A. Lectr.
Doherty, Eleanor, Ph.D. Harv. Lectr.

French and Italian

Bassett, M. E., B.A. Mich., A.M. Princeton Prof.
Turville, Ada Dorothy, Ph.D. Col. Assoc. Prof.
Jenkin, H. E., B.A. Lond. Asst. Prof.

French and Spanish

Collin, W. E., M.A. Asst. Prof.
Montgomery, F., D. de l'U. Paris Instr.

Geology

Russell, J. W., M.A. McM. Prof.
Reavely, G. H., M.A. Assoc. Prof.

German

Allen, R. A., M.A. Tor., Ph.D. Chic. Prof.
Kalbfleisch, H. K., M.A. New York Asst. Prof.
Taube, E., Ph.D. Wisc. Asst. Prof.

Hebrew

Waller, Rev. C. C., M.A. Camb. and McG., D.D. Prof.

History

Dorland, A. G., B.A. Qu., M.A. Yale, Ph.D. Tor., F.R.S.C. Prof.
Landon, F., M.A., F.R.S.C. Assoc. Prof.
Maine, S. F., B D Vict., M.A., Ph.D. Chic. Assoc. Prof.
Thomas, H. M., M.A. Qu., Ph.D. Harv. Asst. Prof.

Law

Carruthers, C. C., B.A., LL.B. Lectr.

Library Science

2 Instrs.

Mathematics and Astronomy

Kingston, H. R., M.A. Qu., Ph.D. Chic. Prof.
Woods, A., M.A. Qu. Assoc. Prof.
Magee, G. R., M.S., Ph.D. Chic. Asst. Prof.
Dowker, H., Ph.D. Princeton Instr.

Medicine, v. *infra*

Philosophy and Psychology

Liddy, R. B., Ph.D. Tor., LL.D. Mt. All. Prof.
Wilson, D. J., Ph.D. Tor. Asst. Prof.
Johnston, A. H., M.A., Ph.D. Tor. Instr.

Physical Education

Crocker, J. H., M.P.E. Springfield Dir.

Physics [Prof.

Dearle, R. C., B.A., Ph.D. Tor.
Allen, R. L., M.A. Mt. All. Prof.
Foster, Willena, M.A. Tor. Assoc. Prof.
Durnford, W. A., Ph.D. Tor. Asst. Prof.

Physiology

Miller, F. R., M.A., M.B. Tor., M.D. Mun., F.R.S.C., F.R.S. Prof.
Stavraky, G. W., M.Sc., M.D., C.M. McG. Asst. Prof.

Secretarial Science

Keyes, M. Assoc. Prof.
3 Assts.

Zoology

Robertson, A. D., M.A. Tor. Prof.
Battle, Helen, M.A., Ph.D. Tor. Assoc. Prof.
Hitchcock, H. B., Ph.D. Harv. Instr.
4 Assts.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Jepson, G. L., M.D. Asst. Prof.
5 Assts.

Histology

Macklin, C. C., M.A., M.D., Ph.D. Tor., F.R.S.C. Prof.
Macklin, Madge, T., M.D. J. Hop., LL.D. Goucher Coll. Asst. Prof.

Medicine

Hale, G. C., M.D., C.M. McG. Prof.
Childs, J. R. N., M.D. Assoc. Prof.
Campbell, F. J. H., B.A., M.D., M.R.C.P. Assoc. Prof.
Hughes, F. W., M.D. Asst. Prof.
Crombie, D. W., M.D., C.M. McG. Asst. Prof.
11 Instrs.

Obstetrics and Gynæcology

Tew, W. P., M.B. Tor., F.R.C.S. Edin. Prof.
Clegg, F. R., M.D. Assoc. Prof.
4 Instrs.

Ophthalmol., Otol., Rhinol., and Laryngol.

Thompson, S., M.D., F.A.C.S. Prof.
Brown, W. J., M.D., C.M. McG., F.A.C.S. Assoc. Prof.
Armstrong, J. R., M.D. Asst. Prof.
1 Instr.

Pathological Chemistry

Watson, E. M., M.Sc., M.D., F.R.C.P.Ed. Prof.
2 Instrs.

Pathology and Bacteriology

Fisher, J. H., M.Sc., M.D. (Path.) Prof.
Asheshov, I. N., M.B., B.Ch. Saratov (Bact.) Assoc. Prof.
Luney, F. W., M.D., D.P.H. (Path.) Assoc. Prof.
Johns, E. P., M.D. (Path.) Asst. Prof.
4 Instrs.

Pediatrics

Little, H. G., M.B. Tor., F.R.C.P. Can. Assoc. Prof.
Denney, W. L., M.D. Asst. Prof.
3 Instrs.

Pharmacology

Waud, R. A., M.D., M.Sc., Ph.D. Chic. Prof.
1 Demr.

Physiotherapy

McLean, W. J., M.B. Tor. Assoc. Prof.
3 Instrs.

Psychiatry

Stevenson, G. H., M.D. Prof.
3 Instrs.

Public Health

Slack, A. J., Ph.C. Mass., M.D., D.P.H. Prof.
2 Instrs.

Radiology

McNeill, G., M.D., F.A.C.S. Prof.
Andrus, P. M., M.D. Asst. Prof.
2 Instrs.

Surgery

Wilson, J. C., M.D., F.A.C.S. Assoc. Prof.
Ramsay, G. A., M.D., F.A.C.S. (Orthop. S.) Assoc. Prof.
Busby, E. D., B.A., M.D., F.A.C.S. Assoc. Prof.
Grace, A. J., M.A., B.M., B.Ch. Ox., F.R.C.S. Assoc Prof.
5 Instrs.

AFFILIATED INSTITUTIONS

ASSUMPTION COLLEGE, Windsor, Ont. Principal, Prof. of Science, A. T. McDonald, M.A. Col. 37 other Profs. of Arts subjects.

URSULINE COLLEGE, London, Ont. Dean and Prof. of French, Mother Frances Clare, M.A. Tor. 23 other Profs. of Arts subjects.

WATERLOO COLLEGE, Waterloo, Ont. President, Rev. F. B. Clausen, D.D. 15 others in Arts Dept.

These three Colleges give the full 4-yr. Arts Courses.

ALMA COLLEGE, St. Thomas, Ont., is a Junior Coll., giving the first 2 yrs. in Arts only. Principal, P. S. Dobson, M.A. Ox., D.D. 7 other teachers.

HURON COLLEGE, London, Ont., is a theological coll. Principal, Prof. of Div. and Hebrew, Rev. C. C. Waller, M.A. Camb. and McG., D.D. Other teachers not on staff of the Univ.: Rt. Rev. Bishop of Huron, D.D., LL.D., Lectr. in Bib. Exeg.; Rev. F. Anderson, M.A., B.D., D.D. Ox., Prof. of Ch. Hist.; Rev. K. Taylor, B.A. Ox., B.D., Prof. of Ch. Hist.

GENERAL INFORMATION

Incorporated by an Act of the Provincial Legislature in 1878 as the "Western University of London, Ontario," in connexion with the Church of England, the Univ. has become, under the provisions of amending Acts of 1908 and 1923, absolutely undenominational in its government, which is under provincial and municipal control. It consists of 3 Instns., the Coll. of Arts (University College), the Medical School, and the Institute of Public Health.

FACULTIES. Arts (Dean—Prof. K. P. R. Neville), Medicine (Dean—Assoc. Prof. F. J. H. Campbell), Public Health (Dean—Prof. A. J. Slack).

DEGREE COURSES. 4 or 5 yrs. (from Junr. Matricn.), B.A.; 5 yrs., B.Sc. (in Nursing); 1 or 2 yrs.' graduate work, LL.B., M.A., M.Sc.; 6 yrs., M.D. Attendance on part of the classes (other than Med. and Sci.) may be dispensed with by the Senate, but all students must have attended lectures in the Univ. for at least 2 yrs. before they can graduate.

DIPLOMAS AND CERTIFICATES. Diploma in Business Administration; Diploma of Public Health (D.P.H.). Certificate of Public Health Nurse (C.P.H.N.); Certificate of Instructor in Nursing (C.I.N.); Certificate of Hospital Administration (C.H.A.); courses each 1 yr., for graduates in respective fields.

FEES. Annual: Arts, $125; Medicine, $225; Public Health, $140.

THE LIBRARIES contain *c.* 130,000 vols. and several thousand pamphlets. The Barnett collection contains many rarities dealing *inter alia* with Canadian and American history. The Shakespeariana number *c.* 1500 vols. and several thousand pamphlets.

EXTRA-MURAL WORK. Regularly carried on.

PUBLICATIONS. *Calendar* (May); *Report of Faculty of Public Health* (May); *Medical School Announcement* (May); *Univ. Gazette*, twice a week during term.

THE YEAR 1937–38

NEW DEVELOPMENTS. Junior appt. in Geography. Four-yr. course in Home Economics authorized by Senate to begin in the fall of 1938.

RETIREMENT. Prof. H. W. Auden (Classics).

RESIGNATION. Prof. H. A. Logan (Economics), on appt. as Prof. of Economics, Univ. of Toronto.

DEATHS. Ven. Archdeacon G. B. Sage (Apologetics), Rev. Father M. A. Brisson (Religious Knowledge).

HONORARY DEGREES. *LL.D.*—(June 1938) The Hon. A. Matthews, Lieutenant-Governor of Province of Ontario; Dr. H. A. Christian, Head of Dept. of Medicine, Harvard Univ. (October 1938) Diamond Jubilee Convocation—H.E. Lord Tweedsmuir, Governor-General of Canada; Dr. R. C. Wallace, Principal of Queen's Univ., Kingston, Ontario; Dr. E. Seaborn, one of the first medical graduates of the Univ. and Officer Commanding the Univ.'s Stationary Hospital unit in overseas service. *D.D.*—Very Rev. A. Carlisle, one of the first graduates in Arts of the Univ. and Dean of the Anglican Diocese of Montreal.

STUDENTS. Full-time: 1265, including 16 graduates. Part-time: 1117, including 26 graduates. Total: 2382.

DEGREES. D.D., 2; B.A., 278; M.A., 15; B.Sc., 5; M.Sc., 2; M.D., 33; Certif. of Instr. in Nursing, 2; Certif. of Public Health Nurse, 16; Diploma in Home Economics, 1.

THE UNIVERSITIES OF AUSTRALIA

ADELAIDE MELBOURNE QUEENSLAND, BRISBANE
SYDNEY TASMANIA, HOBART WESTERN AUSTRALIA, PERTH

GENERAL DESCRIPTION

[Revised in 1931 and 1936 by Professor J. T. Wilson, M.A., LL.D., M.B., Ch.M., F.R.S., St. John's College, Cambridge, representative of the University of Sydney on the Universities Bureau, and one of two members representing Australia on the Executive Council of the Universities Bureau, and further revised for this edition by the Australian Vice-Chancellors' Committee.]

EACH State of the Commonwealth of Australia possesses a University in its capital city. Geographically they are by no means near neighbours. Those most widely separated—at Brisbane and Perth respectively—are effectively not less than 3000 miles apart; whilst to visit even the nearest sister University involves in each case a journey of some 500 miles.

Nevertheless these Universities form a relatively homogeneous group owing to their general similarity of origin and constitution and to their relationship to the communities which they serve. All of them owe their establishment to Acts of the State Legislatures carried through in response to popular demands. They are not, however, "State Universities" in the American sense, but, like the British Universities generally, are, by statute and Royal Charter, self-governing academic corporations.

Underlying this general uniformity of type there are not a few individual differences and variations. These may be referred to several factors: differences in dates of foundation (1850–1911) necessarily determine more or less the stage and degree of academic development actually reached; also, the academic ideas current at different foundation periods have undoubtedly impressed themselves on the academic structure and development of both older and younger Universities. Further, another obviously important differentiating factor has been that of inequality of material resources available, both from private endowment and from State subsidy—the latter being naturally dependent in large measure on the extent of the population of the State concerned.

RESIDENTIAL COLLEGES. The founders of the first Australian Universities would appear to have been influenced, to some considerable extent, by the conception of a University which is embodied in the ancient residential foundations of Oxford and Cambridge. Doubtless, this was due in part to the fact that they were contemplating Universities which were to serve the large, and comparatively thinly populated, areas of the several Australian Colonies (long before the date of their federation as States of a Commonwealth). In these early Australian

Universities, the general system of University education was on lines similar to those of the modern English Universities, and conformed to the official policy of secular education; but provision was made at the outset for residential colleges, which were—as in Oxford and Cambridge—conceived as religious foundations. The circumstances of time and place made it inevitable that such religious foundations should be entrusted to the Churches of the leading Christian denominations, namely: Church of England, Presbyterian, Methodist, and Roman Catholic.

In the case of the first two Universities, those of Sydney (1850) and of Melbourne (1853), substantial areas were set apart, within the lands reserved for University purposes, and offered as sites to the four Churches named, for the founding of residential colleges. In due course, the following colleges were so founded, with governing bodies appointed by the several Churches: Sydney—St. Paul's (1854), St. John's (1857), St. Andrew's (1867), Wesley (1910); Melbourne—Trinity (1872), Ormond (1879), Queen's (1888), Newman (1916). Not long after the founding of colleges for women at Oxford and Cambridge, provision for residence of women students was made as follows: Sydney—the Women's College (1890), not a Church foundation, Sancta Sophia (1929), originating (in 1925) as a hall of residence associated with St. John's College; Melbourne—University Women's College (1937), again not a Church foundation, preceded by halls of residence, namely, Janet Clarke Hall (1886) and St. Mary's Hall (1916), associated respectively with Trinity and Newman Colleges.

What a "College"—"within the University of Sydney" or "of and within the University of Melbourne" (to quote the official descriptions)—should connote, in the circumstances of these Universities and Colleges, was a new and very difficult problem. Because of a variety of exceptional factors, the furthest advance towards a solution of this problem has been made in the Colleges of the University of Melbourne—with a well-established College tutorial system, a large membership of non-resident College students (so that the total membership of the Colleges constitutes more than one-third of the full-time students of the University), a liberal system of resident scholarships and non-resident exhibitions, and a considerable measure of organic relationship to the Faculties, and to the governing body, of the University. In the University of Sydney, where circumstances were, at the earlier stages, not so favourable for such a development, the College system has a place of parallel importance—with certain characteristic differences.

In the Universities of all the other States, there are Colleges at different stages of development. In the University of Queensland (founded 1910), where provisions were laid down by statute for residence of all students (including recognition of the residence of a student in his own home), the following Colleges were founded: Emmanuel (1912), St John's (1912), King's (1912), the Women's College (1914—not a Church foundation), St. Leo's (1917), Duchesne (1936). And, on the new site for this University, at St. Lucia, land is being set apart for these Colleges. In the University of Adelaide, St. Mark's College (1925) is an Anglican foundation, as are also St. George's (1931) in the

University of Western Australia, and Christ College (1933) in the University of Tasmania.

In order to understand the place which the College system occupies in the Australian Universities, it should be remembered that, while membership of a College implies membership of the University to which the College belongs, membership of the University does not necessarily imply membership of any of its Colleges. College tutorials are, therefore, supplementary to the teaching which the University provides for all its students (whether members of a College or not) and, in consequence, vary considerably from university to university. There is also considerable variation in the scale of College fees.

The Colleges in all the universities are open to all students of good standing, without distinction of religious belief.

CONSTITUTION OF UNIVERSITIES. A. *Governing bodies.* In their statutory constitution the governing bodies of all the Australian Universities present a generally similar composite character, whilst differing in the proportions of the component elements. Their membership varies in number from 18 to 31. In every case there is a substantial proportion of representatives elected by the general body of graduates, varying from one-third to more than one-half of the total membership, but only in two cases (Adel. and W.A.) does it form the preponderant element. In every University there is now a more or less direct representation of the State on the governing body, either by nomination by the Governor-in-Council or by election by the Houses of Parliament, and in two cases by *ex officio* representation of the State Department of Education. In the more recently founded Universities the representation of the State Government is strong; in one instance it is equal to the academic, and in another it is even slightly preponderant.

The academic representative element invariably includes representatives of the teaching staff, though only in Sydney, Melbourne and Tasmania by independent statutory right. In most cases their number is by ordinance limited to three, elected as part of the general representation of the academic body by the graduates.

The Melbourne University Act of 1923 introduced certain novel provisions, namely, that the Government nominees shall include representatives not only of Parliament but of manufacturing, commercial, agricultural, and industrial interests, as well as a representative of the technical schools; it also provided that two Heads of Colleges and two elected representatives of the undergraduate body shall have seats on the governing body.

The governing body in the Australian Universities is designated either the "Senate" (Syd., Queens., W. Aust.), or "Council" (Melb., Adel., Tas.).

B. *Graduate academic body.* As in the British Universities generally, there is in each of the Australian Universities another statutory academic body, consisting in the main, though not in all cases exclusively, of the general body of graduates (usually of at least three years' standing). In Queensland the Governor-in-Council may appoint as members of this body one representative of "any commercial, industrial, scientific,

professional, or educational society, institution, or association within Queensland." In the University of Western Australia the " Guild " of undergraduates has the right of electing one member of this body.

In those Universities in which the governing body is entitled " Senate " the graduate body is called either Convocation or Council. Where the governing body is styled " Council " the graduate body is called either Senate or (in Melb. since 1923) Convocation.

Whilst the main effective function of this body is its electoral choice of its own representatives on the governing body, it has also, in several Universities, powers of deliberation, approval, and confirmation in respect of matters submitted to it and in some instances of suggestion, but in no case of initiation of University legislation.

C. *Other administrative bodies.* The general routine of studies and discipline is usually controlled by a " Professorial Board," whilst the special curricula of studies are the immediate concern of the Faculties and special boards of studies. Matters of discipline are in one or two instances dealt with by a special Proctorial Board or Board of Discipline.

ADMISSION. Attempts are being made to devise a common matricn. The difficulty lies in difference of policy as to the part to be taken by entrance examination as a qualifying test, and as to requisite subjects. Generally speaking, matriculation requirements include passing a recognized examn. (school-leaving, matricn., etc.) in English, another approved language (at Sydney, *e.g.*, Latin, Greek, French, German, Italian, or Japanese), Mathematics, and one or more other subjects. Special facilities are offered for matriculation in some Univs. and in some faculties to persons who have attained the age of 25 yrs. (in Western Australia, 23 yrs.). In Queensland (all Faculties) and Western Australia (Arts) such persons are admitted on passing a special Adult Matriculation Examn. Owing partly to isolation by distance, migration of students from one University to another is not common. It would occur still more rarely were it not for the fact that several of the younger and smaller Universities do not yet provide opportunities for professional training in every direction, particularly in medicine. Hence it becomes necessary for some students, after one or two years' study in the University of their own State, to betake themselves to one of the older and larger Universities in order to prosecute their studies along definitely professional lines.

Although the requirements for entrance at the various Universities are not completely uniform, all possible reciprocity is exercised in the matter of such interchange of students, whether from Australian or British Universities.

THE ACADEMIC YEAR. Undergraduate status is ordinarily defined in terms of academic years of study, *e.g.* " first year," " fifth year," etc.

The academic year begins in March and ends in Nov. or Dec. It is subdivided into Terms, usually three, which may or may not include special examination periods. The Universities of Melbourne and Tasmania have each four Terms, but the fourth Term in these cases is devoted to examinations.

Although the inclusive dates of the terminal periods show some dis-

crepancy in the different Universities, arrangements have been made to secure the coincidence of two of the inter-term vacations.

PERIODS OF STUDY. The Univ. requires not less than 3 yrs.' study for a B.A. or B.Sc.—4 yrs. if the B.Sc. is taken with Honours. The curriculum for the first degree in Med., formerly 5 yrs., has been lengthened to 6. The time needed to graduate in law is usually 4 yrs., but some Universities allow graduates in Arts to shorten the prescribed period. Since regulations do not always require each successive "year" to be taken as a whole, but allow credit to be given for subjects taken separately, many students, especially those able to give only part time to their studies, spread their courses over periods longer than the normal. For information regarding other degrees and periods of study therefor, *see* under the several Universities.

FEES AND COST OF LIVING. The cost of living varies a good deal in different parts of Australia. A student will probably not notice much difference between Sydney and Melbourne in this respect. But anywhere he will find that £200 a year gives him quite sufficient means, for the climate is benign and good food is plentiful. The style of living everywhere is unostentatious. Decent board and lodging should not cost more than 35s. a week. Meals at the cost of 6d. to 2s. 6d. can generally be obtained at the University by members of "Unions" and others. Sydney Univ. Union has a Refectory seating 450, and one-half of it is open to all members of the University and their guests. Adelaide Univ. has a Refectory seating 400, and Melbourne has a Union building containing dining-rooms seating upwards of 700. Western Australia is at present using one-half of dining-rooms which could accommodate about 200. A developed Union at an Australian University also provides all the comforts of a non-residential Club for £1 or £2 a year. The new Union House at the University of Melbourne has many social and cultural amenities, including a Theatre, Art Gallery, and private entertainment rooms. Rowing, football, cricket, and other games may be had in the Sports Clubs on correspondingly easy terms, and numerous Inter-varsity contests are held in vacations under the auspices of the Australian Universities' Sports Union.

Residence at a College is optional. College fees for residence and tuition are on an inclusive basis and range from 60 to 120 gs. per annum. Thus Wesley College, Sydney, charges 28 gs. a term for resident students; Ormond, Melbourne, from 110 to 120 gs. a year for residence during terms, according to the course being taken. St. John's, Queensland, has fees of £21 per term, and the rates at the other Queensland Colls. are practically the same. The fees at St. Mark's College, Adelaide, range from 102 to 114 gs. per annum. St. George's, Western Australia, charges £60-£90 per annum, and Christ College, Tasmania, £60 per annum. Special arrangements can always be made for residence during vacations; for an example, Ormond then charges 2 gs. a week. Many men live in College on a total income of not more than £150 a year; it is doubtful if any will spend double that amount. There are few rich students and no tradition of expensive living among College men, no charming but costly ancient customs.

Many of the Colleges have liberal endowments for Scholarships and Bursaries.

For University fees *see under* the several Universities below.

CURRICULA AND COURSES OF UNIVERSITY STUDIES. In general it may be said that the character and range of studies in the Australian Universities correspond fairly well with those of British Universities of comparable size and organization. There is, however, one notable exception : in accordance with the exclusively secular character of the Universities of Australia a Faculty of Theology is lacking in all of them, and no degrees in Divinity are obtainable in any Australian University, although under special Acts of Parliament they may be given by other institutions, such as the Melbourne College of Divinity. In the case of the University of Sydney amending legislation passed in 1936 removed the exception of degrees in Divinity and Theology and it is likely that degrees in Divinity will be established in the near future. More or less associated with this situation is the absence of any courses of study in Oriental languages or literature, with the exception of Japanese, a Professorship for which exists in Sydney and in connexion with which lectures on Oriental history are also delivered. (A certain amount of teaching in Oriental languages is provided in Theological schools maintained by some of the religious denominations.) There is an Institute of Modern Languages at the Queensland University which provides courses up to Senior (School Leaving) Examination standard. The courses available in 1936 were Chinese, Dutch, French, German, Hebrew, and Italian. For the benefit of theological students Biblical Literature became an optional subject of the Faculty of Arts from the beginning of 1938. The University of Melbourne has Instructorships in Dutch, Japanese, Italian, Russian, Spanish and Scandinavian Languages.

Subdivision of University studies into groups, under Faculties and Boards of Studies, has been carried further than is usually the case in British Universities. There has thus been a considerable accession of new Faculties beyond those traditionally recognized. The general principle has been largely, though not consistently, adopted that any definite and distinct curriculum leading up to the award of a distinctive degree or degrees, warrants the creation of a separate and distinct Faculty as a Board for the regulation of the studies and examinations in such a curriculum.

Concurrently with this development there has been a marked tendency to the specialization and multiplication of distinctive degrees, so that in some cases we find that even within the limits of a single Faculty several distinctive degrees are obtainable along more or less differentiated lines of study. A conspicuous instance of this is seen in the Faculty of Engineering in Melbourne, in which no fewer than twelve different degrees may be awarded as Bachelors and Masters of different branches of Engineering—Engineering Science, Civil, Mechanical, Electrical, Mining, and Metallurgical—besides a Doctorate of Engineering Science. As many as thirteen different Faculties are found among the various Universities, with a maximum number in Melbourne of

twelve. In Sydney there are ten Faculties and in Adelaide nine, if the Board of Studies in Commerce be included. The establishment of Faculties of Law, Medicine, and Veterinary Science at the beginning of 1936 brought the number in Queensland up to nine.

Each University possesses Faculties of Arts, Science, Law, and Engineering. All except Tasmania have Schools of Agriculture. Sydney and Queensland have Schools of Veterinary Science organized as separate Faculties, Western Australia teaches Veterinary Science only as part of the Agricultural course. The course in Veterinary Science is at present suspended in the University of Melbourne, and students desiring to qualify for a degree must proceed to Sydney after the completion of their first year. In N.S.W. and W. Australia the law requires such qualifications as practically involve the Univ. curriculum in Veterinary Science.

The subject of Economics is represented by separate Professorships in each University, except in Queensland, where there is a joint chair of History and Economics. In Sydney there is a special Faculty of Economics, but, as there is no Faculty of Commerce, it includes all the various branches of both Economic and Commercial Studies. In Melbourne, Queensland, and Tasmania there are Faculties of Commerce, and in Adelaide and Western Australia Boards of Commercial Studies, under all of which the subject of Economics finds its primary orientation along with the various branches of Commercial theory and practice. Economics, however, is ordinarily included also as a subject which may be taken for an Arts degree.

In Sydney there is a fully organized Faculty of Architecture, and in Melbourne a Faculty of Architecture with a teaching school, but as yet no chair in that subject. There is a degree course in Surveying and a diploma course in Architecture in Queensland, both in the Faculty of Engineering.

Melbourne and Adelaide have each a Faculty of Music with a full Professorship and a Conservatorium. In Sydney there is a Conservatorium entirely independent of the University. Tasmania has a course of lectures leading to the degree of Bachelor of Music ; the course is at present conducted under the Faculty of Arts. In Queensland Music may be taken as a subject of the first year of the B.A. course.

Melbourne alone has a separate Faculty of Education granting University degrees of Bachelor and Master of Education. The Faculty contains several representatives of the State Department of Education. In all the other Universities the subject of Education comes under the Faculty of Arts and enters into the composition of such alternative curricula for the Arts degrees as are specially adapted to the requirements of the professional training of teachers. Sydney, Melbourne, and Western Australia have Professors of Education who are also heads of the State Training Colleges. Special Diplomas in Education are obtainable in the Universities of Sydney, Adelaide, Queensland, and Tasmania by University graduates or by students who have qualified for a degree (W. Aust.) and have had approved practical experience of teaching. Melbourne has now a special two years' course in Physical Education controlled by a Board of Studies and leading to a Diploma.

PROFESSIONAL SCHOOLS AND RESEARCH INSTITUTES. Each of the three older Universities, of Sydney, Melbourne, and Adelaide, possesses well organized and equipped professional schools under their Faculties of Medicine and Dentistry. These schools have long been, and are now, mainly responsible for the training of the medical and dental professions in Australia, whilst not a few of their graduates may be found occupying responsible positions outside Australia. The teaching and research staffs of these schools are also now largely recruited from the ranks of their own more distinguished graduates, but they are continually being reinforced by other teachers of distinction from outside Australia. Faculties of Dentistry and Medicine were established in Queensland in 1935 and 1936 respectively.

The relationship of the Medical Schools to the great general hospitals is intimate and effective. There is thus secured an extensive and varied clinical field, not only for undergraduate training, but in increasing measure for more advanced and specialized post-graduate study and research in conjunction with the scientific laboratories of the Universities and other Research Institutions. Such post-graduate work in various departments of specialized study now finds manifold guidance, and receives full official recognition, in connexion with the Diplomas awarded after appropriate courses of study. Amongst these may be specified the Diplomas in Psychiatry and Radiology at the University of Sydney and the Australian Diplomas in Public Health, Tropical Medicine and Tropical Hygiene from the Federal School of Public Health and Tropical Medicine in the University of Sydney, and more or less corresponding courses in the University of Melbourne, which also grants Diplomas in Ophthalmology, Laryngology and Otology, in Gynæcology and Obstetrics, in Therapeutic and Diagnostic Radiology, and in Psychological Medicine.

A Biophysics Section was established in Queensland in 1937 to manufacture radon and to carry out other work in connexion with the treatment of cancer. In Adelaide, the Anti-Cancer Campaign Committee maintains a radium and deep X-ray clinic at the Adelaide Hospital, and a plant at the University for the production and manipulation of radon. Under an arrangement with the University of Melbourne the Commonwealth Government maintains there an X-ray and Radium Research Laboratory.

The University of Adelaide established in 1925 an important centre for research in agricultural and allied subjects at Glen Osmond, three miles from the city. See Waite Agricultural Research Institute, Appendix III. B. 2.

The University of Western Australia has established an Institute of Agriculture, which serves as a centre for research in agricultural science, and has set aside a portion of the University grounds for investigational purposes, with accommodation for plant and animal experiments.

There are various University and associated Research Institutes in Adelaide, Melbourne, and Sydney, where investigation is carried on into problems of Pathology, Bacteriology, Pharmacology, Radiotherapy, Cancer Research, Animal Nutrition, Entomology, etc.

DIPLOMAS. Numerous University Diplomas are now obtainable in various branches of study in the Universities of Australia. They may be classed under three categories: (*a*) those obtainable by graduates as supplementary qualifications in particular subjects after special courses of study. To this group belong the post-graduate medical diplomas already mentioned and also certain Diplomas in Education; (*b*) Diplomas obtainable by non-graduates after shorter or less comprehensive courses of study than those required for a University degree covering the same subject. This group includes certain Diplomas in Commerce, Public Administration, Agriculture, Engineering, and Music; (*c*) Diplomas in subjects, usually of limited range, for which no special University degree is available, *e.g.* Journalism, Pharmacy and Anthropology.

EVENING LECTURES. Full University courses of evening lectures in Arts, and in some cases in Science, Commerce and Law, subjects are provided by the Universities of Adelaide, Melbourne, Sydney, Queensland, and Western Australia to enable a degree in those Faculties to be obtained by persons whose occupations preclude their attendance at the University during the day. In Tasmania a number of lectures are given between 5 P.M. and 8 P.M. In Queensland the evening classes, generally of one hour duration, are held between 8 P.M. and 9 P.M.

EXTERNAL STUDENTS. Under the Regulations of the Universities of Melbourne and Queensland, attendance at lectures is not compulsory except in specified subjects. (These naturally include most scientific subjects which require laboratory facilities.) It is therefore possible, though not common, to obtain an Arts degree as a purely external student. In Western Australia a few correspondence classes for the benefit of external students are carried on each year by the University; Melbourne also provides correspondence tuition in certain subjects.

In the Universities of Adelaide, Sydney, and Tasmania exemption from some of the lectures of a course may be granted in special cases in which reasonable cause is shown.

In all the Universities there is provision for the recognition, for degree purposes, of various courses of instruction in affiliated institutions such as Technical Schools and Colleges.

UNIVERSITY EXTENSION LECTURES were instituted at Sydney Univ. in 1886 and at Melbourne in 1891. In 1913 Workers' Educational Associations were formed in all the States to give effect to a movement for bringing the Univs. into closer relationship with the masses of the people. The movement was fostered by State grants and grew rapidly Each Univ. co-operates with the W.E.A. in the formation of a joint committee, which appoints tutors and supervises the work with the help of a Univ. officer—the Director of Tutorial Classes. A federal W.E.A. for Australia has its central office in Melbourne. The total number of students throughout Australia is over 6000. In addition to these courses a great many preparatory classes, study circles, and summer schools are organized by the Assocn., numerous courses of public lectures are delivered, educational conferences promoted, and an extensive book service is carried on. A correspondence study

department has been inaugurated in connexion with the W.E.A. activities in Queensland. In Western Australia extension classes are conducted at the University, in the city and suburbs, with a Box Scheme for group study in the country centres, and a Readers' Counsellor Scheme for the supply of books to individual readers. Western Australia has no W.E.A. organization, but a Students' Association and Council was formed in 1937.

FREE PASSAGES TO EUROPE. The following free first-class passages are granted annually to Australian and New Zealand Univs. for graduates proceeding to Europe to continue their studies : Adelaide, 3 ; Melb., 4 ; Queensland, 3 ; Syd., 4 ; Tasm., 2 ; W. Aust., 3 ; N.Z., 4 ; available by any of the following Lines : Aberdeen, Blue Funnel, Orient, P. & O., and, for N.Z. graduates only, N.Z. Shipping and Shaw, Savill & Albion.

CONFERENCE

After a conference held at Sydney in May 1920 the Australian Univs. established a Standing Advisory Committee to deal with matters of common interest. The present headquarters of the Committee, now known as the Australian Vice-Chancellors' Committee, are Melbourne University. The Vice-Chancellor of Melbourne Univ. acts as Chairman of the Committee, the secretary being Mr. J. F. Foster, M.A., LL.M. The Committee now meets twice a year (usually in each February and August). At intervals of two or three years a general Universities Conference is also held. The Conference which took place in Adelaide in February 1937 was attended by a New Zealand delegation as well as by about seventy representatives of the Australian Universities. The following were amongst the topics discussed : Universities and Life ; Problems of the English-Speaking University World ; Residential Colleges, Student Advisers ; Appointments Boards ; Adult Education ; the Commonwealth Government's grant of £30,000 p.a. to the Universities for research. The published Proceedings of the Conference were edited by the Librarian of the University of Adelaide.

STATISTICS of University teachers, students, and finance are published annually by the Commonwealth Bureau of Census and Statistics in the official Year-Book.

UNIVERSITY OF ADELAIDE

Founded 1874

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Sir G. J. R. MURRAY, K.C.M G., B.A., LL.M., Lieut.-Governor and Chief Justice.

VICE-CHANCELLOR—Sir WILLIAM MITCHELL, K.C.M.G., M.A.

REGISTRAR—F. W. EARDLEY, B.A.

LIBRARIAN—W. A. COWAN, M.A. N.Z., B.A. Lond.

TEACHING STAFF

Accountancy

Mills, E. W., A.U.A., F.C.A. Aust. Lectr.

2 Tutors.

Agriculture, v. also *infra* Waite Agric. Research Inst.

Prescott, J. A., M.Sc. Manc., D.Sc. (Agric. Chem.) Waite Prof.

Davidson, J., D.Sc. Liv. Waite Prof.

Animal Products, v. *infra* Animal Products Research Foundation

Anatomy, v. also Med.

Goldby, F., M.A., M.D. Camb. Elder Prof.

Mead, C. S., B.A., M.B., B.S. Lectr.

4 Hon. Demrs.

Biochemistry and General Physiology

Mitchell, M. L., M.Sc. Camb. Prof.

Lippay, F., M.D. Asst. Lectr.

Botany [Prof.

Wood, J. G., Ph.D. Camb., D.Sc.

Black, J. M. (Syst. B.) Hon. Lectr.

Barrien, Miss B. S., M.Sc. Demr.

Eardley, Miss C. M., B.Sc. Herbarium Curator.

1 Research Scholar.

Chemistry

Macbeth, A. K., M.A., D.Sc. Belf., F.I.C. Angas Prof.

Cooke, W. T., D.Sc. Lectr.

Pennycuick, S. W., D.Sc. (Phys. C.) Lectr.

Winzor, F. L., D.Sc. Asst. Lect.

Cooke, R. G., B.Sc. Res. Officer.

Finlayson, H. H. Demr.

1 Jun. Demr.

2 Research Scholars.

Classics and Comp. Philol. and Lit.

Fitzherbert, J. A., M.A. Camb. Hughes Prof.

Corney, E. R., M.A. Asst. Lectr.

Cowan, W. A., M.A. N.Z., B.A. Lond. Tutor.

Commerce, v. also Acctcy.

Philips, E., LL.B. (Coml. Law) Lectr.

Wainwright, J. W., B.A. Public Admin. Lectr.

Steele, W. M. (Com. Prac.) Lectr.

Newman, K. F., B.Ec., A.U.A. (Statistics) Lectr.

2 Tutors.

Dentistry, v. *infra*

Economics, v. also Com.

Isles, K. S., M.A., M.Sc. Camb., B.Com. Tas. Prof.

La Nauze, J. A., B.A. Ox. and W. Aus. Lectr.

Education [Lectr.

Schulz, A. J., Ph.D. Zür., M.A.

Engineering, v. also Mining

Robin, R. C., M.E. Prof.

Farrent, T. A., B.E., B.Sc. (Civil) Lectr.

Barker, A. B., B.E., B.Sc. (Industrial) Lectr.

Robinson, A. J., B.C.E. Melb. Testing Officer and Demr.

1 Demr. in Metallogr.

Engineering, Elec.

Clark, E. V., B.Sc., M.I.C.E., M.I.E. Aust. Lectr.

English Lang. and Literature

Stewart, J. I. M., M.A. Ox. Jury Prof.

Hersel, A. W., B.A. Asst. Lectr.

French

Cornell, J. G., M.A. Senr. Lectr.

Crampton, Mary H. St. Cl., M.A. Asst. Lectr.

Geography [Lectr.

Fenner, C. A. E., D.Sc. Melb.

Geology and Mineralogy

Mawson, Sir Douglas, O.B.E., B.E. Syd., D.Sc., F.R.S. Prof.

Madigan, C. T., M.A., D.Sc. Ox., B.E. Lectr.

Alderman, A. R., Ph.D. Camb., M.Sc. Evg. Lectr.

German [Tutor.

Schulz, A. J., Ph.D. Zür., M.A.

History, v. Polit. Sci. & Hist.

Law

Campbell, A. L., B.A., B.E. Syd. Bonython Prof.

Pickering, A. L., LL.B. (Evidence and Procedure) Lectr.

Whitington, L. A., LL.B. (Companies, Partnerships, Bankruptcy and Divorce) Lectr.

Benham, E. W., LL.B. (Equity and Conveyancing) Lectr.

Kriewaldt, M. R. C, B.A., Wisc. LL.B. (Property—Real and Personal) Lectr.

Piper, F. E., LL.B. (Private International Law) Lectr.

Phillips, E., LL.B. (Mercantile Law) Lectr.

Hague, R. M., LL.B. (Jurisprudence, including Roman L.) Lectr.

Mathematics

Wilton, J. R., M.A., Sc.D. Camb., D.Sc. Elder Prof.

Sanders, H. W., M.A. Camb. Lectr.

Statton, J. W., B.Sc. Asst. Lectr.

Medicine, v. *infra*

Mining Engineering and Metallurgy

Gartrell, H. W., M.A. Col., B.A., B.Sc. Prof.

Music

Davies, E. Harold, Mus.Doc., F.R.C.M. Elder Prof.

Philosophy

Stewart, J. McKellar, D.Phil. Edin., M.A. Hughes Prof.

Barbour, R. R. P., M.A. Ox. (Ethics) Lectr.

Davey, Constance M., Ph.D. Lond., M.A. (Psychol. and Logic) Evg. Lectr.

Physics [Elder Prof.

Grant, Kerr, M.Sc. Melb., F. Inst. P.

Burdon, R. S., D.Sc., F.Inst.P. Lectr.

Fuller, G. R., B.Sc. Asst. Lectr.

Iliffe, M. I. G., B.Sc. Research Officer.

3 Demrs., 2 Research Scholars.

Physiology, General, v. Biochemistry

Political Science and History

Portus, G. V., B.Litt. Ox., M.A. Syd. Prof.

Oldham, W., Ph.D. Lond., M.A. (Hist.) Lectr.

Zoology

Johnston, T. Harvey, M.A., D.Sc. Syd. Prof

..... Demr. and Research Asst.

1 Research Scholar.

Medicine

(for subjects of first 3 yrs.—Anat., etc., v. *supra*)

Anæsthetics [Instr.

Brown, Gilbert, M.B., Ch.B. Liv.

Anatomy, Surgical, and Operative Surgery

Pomroy, H. R., M.B., B.S. Assoc. Lectr.

Bacteriology

Platt, A. E., M.D. Prof.

Diseases of Children, Med.

Le Messurier, F. N., M.D., B.S. Clin. Lectr.

Diseases of Children, Surg.

Wilson, L. A., M.B., B.S., F.R.C.S. Edin. Clin. Lectr.

Ear, Nose, and Throat

Jay, H. M., M B., B.S. Lectr.

Forensic Medicine

Rogers, R. S., M.D., Ch.M. Edin., M.A., D.Sc. Lectr.

Gynæcology and Obstetrics

Wilson, T. G., M.D. Syd., F.R.C.S. Edin. Way Lectr.

Tutors in Obstetrics

Beard, J. R. S. G., M.B., B.S., F.R.C.S. Edin.

Matters, R. F., M.D., M.S., F.R.C.S. Edin., D.G.O. Vienna.

Fisher, H. M., M.B., B.S., F.R.C.S. Edin.

Swift, B. H., M.A., M.D. Camb., F.R.C.S. Edin.

Infectious Diseases

Beare, F. H., M.D., M.R.C.P. Lond., D.P.M. Eng. Tutor.

Materia Med. and Therap.

Fry, H. K., D.S.O., B.Sc. Ox., M.D., D.P.H. Lectr.

Medicine

Ray, W., B.Sc. Ox., M.B., B.S. Director and Lectr.

Hone, F. R., B.Sc., M.D. Tutor.

Hetzel, K. S., M.D., M.R.C.P. Tutor.

Medicine, Clinical

Burston, S. R., M.B., B.S. Melb., M.R.C.P. Edin. Lectr.

Hetzel, K. S., M.D., M.R.C.P. Lectr.

Medicine, Experimental

Hurst, E. Weston, M.D., D.Sc Birm., M.R.C.P. K. Sheridan Prof.

Medicine, Psychol.

Birch, H. M., M.R.C.S., L.R.C.P., D.P.M. Lectr.

Ophthalmic Surg.

Tostevin, A. L., M.B., B.S., D.O. Ox. Gosse Lectr.

Pathology [Marks Prof.

Cleland, J. B., M.D., Ch.M. Syd.

Sangster, C. B., M.B., B.S., M.R.C.P. Demr.

1 Hon. Demr.

Pharmacy v. *infra*

Physiol., Human, and Pharmacol.

Hicks, Sir C. Stanton, M.Sc., M.B., Ch.B. N.Z., Ph.D. Camb., M.D., F.I.C. Prof.

Asst. Lectrs. and Demrs.

Pellew, L. J. T., M.B., B.S., F.R.C.S.

McLarty, T. L., M.B., B.S., D.O.M.S.

Sinclair, D. A., M.Sc. N.Z. Research Officer.

1 Hon. Demr.

Public Health & Preventive Med.

Southwood, A. R., M.D., M.S., M.R.C.P. Lectr.

Radiology

Nott, H. C., M.B., B.S., D.M.R.E. Camb. Tutor.

Surgery

Jose, I. B., M.B., M.S., F.R.C.S. Director and Lectr.
Close, W. J. W., M.B., M.S., F.R.C.S.Ed. Tutor.
Hamilton, I. A., M.B., B.S., F.R.C.S. Tutor.
Hobbs, A. F., M.B., B.S., F.R.C.S. Tutor.
Hughes, J. E., M.B., M.S. Tutor.
Lendon, A. H., M.B., B.S., F.R.C.S. Tutor.

Surgery, Clinical

Associate Lecturers

Lindon, L. C. E., M.B., M.S., F.R.C.S.
Messent, P. S., M.B., M.S.

Clinical Teachers

The Staff of the Adelaide and of the Children's Hospls.

Dentistry

Lecturers

Edwards, H. T. J., D.D.Sc. (Prosthetic D., Crown and Bridge Wk., Ethics, Econ. and D. Jurispr.).
Laughton, R. A. L., A.S.A.S.M. (D. Metal.).
Eustace, J. L., B.D.S. (D. Mat. Med. and Therap.).
Moore, A. P. R., D.D.Sc. (D. Surg. and Path.).
Lendon, A. H., M.B., B.S., F.R.C.S. (Surg.).
Southwood, A. R., M.D., M.S., M.R.C.P. (Med.).
O'Donnell, J. A., D.D.Sc. (Operative D.).
Begg, P. R., D.D.Sc. Melb. (Orthodontics) and Demr.
Brown, Gilbert, M.B., Ch.B. Liv. (Anæsthetics).
Campbell, T. D., D.D.Sc. (D. Anat. and Oral Surg.).
Mead, C. S., B.A., M.B., B.S. (Anat.).
Maddern, C. B., D.D.Sc. (Prophylaxis and Oral Hy.).

Demonstrators

Hannon, T. D., B.D.S. (Operative Technics).
Brougham, L. A. M. (Prosthetic Technics).
Joyner, M. S., B.D.S. (Crown and Bridge Wk.).
Lawrence, G. O., B.D.Sc. Melb. (Prosthetic D.) Instr.

Pharmacy

Lipsham, E. F., Ph.C. (Mat. Med., Pharm. and Disp.) Lectr.
Walter, O. H., F.C.A. Aust. (For. and Com. Pharm.) Lectr.
Swanson, T. B., M.Sc. (Pharm. Chem.) Lectr.

Waite Agricultural Research Institute

Prescott, J. A., M.Sc. Manc., D.Sc. (Agr. Chem.) Waite Prof. and Director.

Entomologists

Davidson, J., D.Sc. Liv. Waite Prof.
Swan, D. C., M.Sc. Asst.
Andrewartha, H. G., M.Ag.Sc. Melb. Asst.

Plant Pathologists

Adam, D. B., B.Ag.Sc. Melb.
Colquhoun, T. T., M.Sc. Melb. Asst.

Plant Physiologists

Petrie, A. H. K., M.Sc. Melb., Ph.D. Camb.
Williams, R. F., M.Sc. Asst.

Agronomists
Trumble, H. C., M.Ag.Sc. Melb., D.Sc.
Wark, D. C., M.Ag.Sc. Melb. Asst.
Smith, C. A. N., B.Ag.Sc. Asst.

Chemists
Piper, C. S., M.Sc.
Best, R. J., M.Sc.
Scott, A. E., M.Sc. Asst.
Gallus, H. P. C., M.Sc. Asst.

Plant Geneticist
Phipps, I. F., B.Ag.Sc., M.Sc., Ph.D. Corn.

Systematic Botanist
Clarke, G. H. F., B.Sc. Syd.

Agrostologists
Davies, J. G., B.Sc., Ph.D.
Cornish, E. A., B.Ag.Sc. Asst.
Goode, J. R., B.Ag.Sc. Asst.
Codrington, A. H. Hon. Wool Instr.

Wine Bacteriologist
Hooper, F. H., B.Ag.Sc.

Field Officer
Pike, K. A.
1 Field Asst., 2 Tech. Assts., 10 Lab. Attendants.

Officers of the Council for Sci. and Indust. Research

Soil Survey Officer
Taylor, J. K., B.A., M.Sc.

Soil Chemists
Hosking, J. S., B.Sc.
Oertel, A. C., M.Sc.
Walkley, A., B.A., B.Sc., Ph.D.

Animal Nutrition Officer
Peirce, A. W., B.Sc.

Soil Bacteriologist
Strong, T. H., B Ag.Sc.

Asst. Soil Surveyors
Marshall, T. J., M.Ag Sc.
Hubble, G. D., B.Ag.Sc.
Hooper, P. D.
Baldwin, J. G.
Crocker, R. L., B.Sc.
Butler, B. E., B.Agric. W. Aust.

Mineral Deficiencies Investigations

Shapter, R. E. Chemist.
Donald, C. M., B.Sc. Agrostologist.

Animal Products Research Foundation

Hicks, Sir Cedric Stanton, M.Sc., M.B., Ch.B. N.Z., Ph.D. Camb., M.D., F.I.C. Chairman, Advisory Bd.
Dawbarn, Miss M.C., M.Sc. Research Chemist.

Tutorial Classes

Biaggini, E. G., M.A., Tutor in Charge, assisted by 13 tutors and 10 study circle leaders.

ASSOCIATED OR AFFILIATED INSTITUTIONS

RESIDENTIAL: ST. MARK'S COLLEGE, under management of Church of England, but open to men of all denominations. Opened for students in March 1925. Master: A. Grenfell Price, C.M.G., D.Litt., Dip. in Ed. Ox.

S. AUSTRALIAN SCHOOL OF MINES AND INDUSTRIES. President, Hon. Sir L. Bonython. Unites with the Univ. in providing courses and examns. in Archit., Mining, Metall., and Engin. The Chancellor is Chairman of the Joint Board.

ROSEWORTHY AGRICULTURAL COLLEGE. Affiliated for parts of the B.Ag.Sc. course for Agric. students.

TEACHING HOSPITALS ASSOCIATED WITH MEDICAL SCHOOL. Adelaide General Hospital, 480 beds; Queen's Home (Maternity), 160 beds; Adelaide Children's Hospital, 120 beds; Bedford Park Sanatorium; "Mareeba"

Babies' Hospital; Northfield Cancer and Consumptive Home; Metropolitan Infectious Diseases Hospital.

GENERAL INFORMATION

The University was established by Act of the Provincial Legislature in 1874 with endowments of £20,000 each from Sir W. W. Hughes and Sir Thomas Elder and a land grant of 50,000 acres (subsequently repurchased by Govt. for £40,000), as well as a site of 5 acres in the city. The original site was increased to 8 acres in 1920, to 14 acres in 1927, and in 1929 an addnl. 13 acres adjoining were vested in the Univ. The Govt. also provides an annual subsidy of 5 per cent on endowments; the subsidy is limited to £30,000. In 1911 the State Parliament sanctioned an addnl. annual grant, and took power to appoint five addnl. members of the Council, which, until then, consisted of 20 elected by the Senate. The grants have been increased by the State Parliament from time to time and now amount to £46,600, excluding a grant of £15,000 to the Waite Agric. Research Inst. The total value of the endowments is £822,307 and the income in 1937 was £136,157.

LIBRARY. Over 110,000 volumes. LABORATORIES, Anat., Bio-Chem., Botany, Chem., Geol., Histol., Pathol., Physics, Physiol., Pharmacol., and Zool. The Univ. includes the *Elder Conservatorium of Music*, which has a staff of 18; it also controls the work of the Observatory and appoints representatives on the Board of Management of the Public Library, Museum, and Art Gallery, and of the Institute of Medical and Veterinary Science.

SPECIAL RESEARCH DEPARTMENTS. (1) The Waite Agricultural Research Institute, established at Glen Osmond for the purpose of furthering the cause of education and research in Agriculture and allied subjects (*see* App. III. B. 2). (2) The Animal Nutrition Institute within the University Grounds (*see* App. III. B. 2). (3) Field laboratory at Koonamore for investigation of plant regeneration in arid areas. (4) The Sheridan Medical Research Foundation for the support of medical research. In 1922 Mrs. A. M. Simpson and Miss A. F. Keith Sheridan bequeathed property (value, £20,000) for the establishment of this foundation. (5) The Animal Products Research Foundation, which conducts investigations in regard to the problems of animal nutrition, *see* Staff List *supra*. (6) The Board of Anthropological Research engaged in Anthropological investigations concerning the aboriginals of South Australia. (7) The Anti-Cancer Campaign Committee directs research into the cause and cure of cancer. (8) Institute of Medical Science at the Adelaide Hospital.

COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS. Collection of Australian endoparasites. Prof. J. B. Cleland's collection of the higher Australian fungi (Basidiomycetes), by far the largest of its kind, is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of marsupial material.

FACULTIES. Arts, Science, Law, Medicine, Dentistry, Music, Agric. Science, Engineering (including Staff of S. Aus. School of Mines and Industries).

DEGREES. Obtainable after 3 yrs.' course, B.A., B.Sc., B.Ec., Mus.Bac.; 4 yrs.', LL.B., B.E., B.Ag.Sc.; 5 yrs.', B.D.S.; 6 yrs.', M.B., B.S.

HIGHER DEGREES. Open to bachelors of 2 yrs.' standing, M.A., M.Sc., M.Ag.Sc., M.E., LL.M.; 3 yrs.', M.D., M.S., D.D.Sc., Mus.Doc.; 4 yrs.', D.Sc., LL.D., D.Litt.

DIPLOMAS. Pharmacy, 4 yrs.' course; Commerce and Public Administra-

tion evening courses, 4 yrs.; Pre-Primary, Primary and Secondary Education, each 1 yr. after graduation; Music, 3 yrs.

A "Final Certificate in Law" for admission as a practitioner in the Supreme Court is obtainable by articled clerks on a curriculum less extensive than that for the LL.B.

The Univ. conducts PUBLIC EXAMNS. of various grades, irrespective of those for its own degrees, etc., namely, in General Education—Intermediate, Leaving, and Leaving Honours; in Commercial Education—Intermediate and Leaving; in Music.

FEES. Matriculation, £1 : 1s.; *ad eundem statum*, £2 : 2s.; Admission to Degrees: Arts, Economics, Science, M.E., LL.M., £5 : 5s.; LL.D., M.D., M.S., D.D.Sc., Mus.Doc., D.Sc., D.Litt., £10 : 10s.; LL.B., £7 : 7s.; B.E., £3 : 3s.; Mus.Bac., £4 : 4s.; Diplomas in Educ., Public Admin., Commerce, Music, Pharmacy, £2 : 2s. Degree Courses in Arts about £65; Economics about £57; Science about £125; Engineering about £120; Law about £90; Medical, £240 (excluding Hospital, £56 : 14s., and Midwifery Clinics, £5 : 5s.); Dental, £250; Music, £53 : 11s.; Tuition Conservatorium, £14 : 14s. p.a. minimum.

SCHOLARSHIPS, etc., for graduates. Angas Engineering, £200 p.a. for 2 yrs., not open to graduates of other Univs.; several smaller.

RESIDENCE. St. Mark's Residential College was incorporated in the Univ. in 1925.

STUDENTS' ADVISER. R. R. P. Barbour, M.A.

ADULT EDUCATION. Tutorial classes in English Lang. and Lit., English Lang. and Lit. (Preparatory), English Lit. (1st and 2nd yrs.), French (2nd yr.), German (2) (1st yr.), German (3rd yr.), Italian (1st and 2nd yrs.); lecture classes in Economics and Public Opinion, International Affairs, Economics, Modern Hist., Philos., Psychol. (2), Ethnol., Music, Physics, Chem. (1st and 2nd yrs.); study circles in Social Philos., French (advanced), Pictorial Art, Geol., Botany, Polit. Sci., Psychol., English Lang. and Lit., and Practical Economics; also series of lectures at country centres.

MEDICAL SCIENCES CLUB. Hon. Sec.—Dr. F. R. Hone, North Terrace, Adelaide.

UNIVERSITY UNION. Secretary—K. T. Hamilton, University.

ECONOMIC SOCIETY OF AUST. AND N.Z. (S.A. Branch.) Hon. Sec.—V. A. Edgeloe, The University.

CLASSICAL ASSOCIATION OF S.A. Hon. Sec.—W. A. Cowan, University.

PUBLICATIONS. *Calendar* (Feb.), 3s. 6d. *Degree Examination Papers*, 1937, 2s. *Australian Journal of Experimental Biology and Medical Science*, quarterly, £1 : 1s. p.a. *Fisher Lecture*, 1938. *Report of the Waite Agricultural Research Institute*, 1933–36.

THE YEARS 1937, 1938

BENEFACTIONS. Sir William Mitchell, £20,000 as endowment for Chair of Bioch.; Dr. T. G. Wilson, £2000 for travelling schol. in Obstetrics; Australian Wool Board, £1240 for investigations into soil erosion and pasture regeneration.

NEW BUILDINGS. George Murray Building (cost £11,500) and Ranson Mortlock Lab. at the Waite Agricl. Research Institute (cost £11,450) completed. Refectory building extended (cost £2300). Institute of Medical and Veterinary Science in course of erection in grounds of Adelaide Hospital.

NEW DEPARTMENTS AND POSTS. New Professional Chairs in Entomology, Mining and Metallurgy, Bacteriology, Experimental Medicine; Senior Lectureship in French; Director and Lecturer in Science and Art of Surgery; Director and Lecturer in the Principles and Practice of Medicine.

OTHER DEVELOPMENTS. Renewal of agreement between Univ. and S.A. School of Mines and Industries cooperating in providing instruction required in various branches of Engin. courses. Fac. of Engin. created.

CHANGES IN REGULATIONS. Diploma in Applied Science abolished, Fellowship of School of Mines separated and new regulations for degree of B.E. made. Time of third examination for the degrees of M.B., B.S. changed, and Anatomy removed from Second Examination. Diploma in Pre-Primary Education established.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. During Adelaide Session of New Education Fellowship Conference held at Univ. in Sept. 1937, Ernest Salter Davies (Dir. of Educ., Kent), addressed Special Congregation on "The Old Learning and the New Spirit." Prof. J. A. Maxwell (Clark Univ.) lectured on "Public Expenditure, Recovery and Recession in the United States of America."

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. Prof. J. B. Cleland, six mths.' leave to study recent pathological work in Great Britain; Prof. M. Mitchell, a yr.'s leave to study recent developments in Biochemistry in America; E. A. Cornish, Asst. Agrostologist at Waite Institute, 12 mths.' study leave.

STUDENTS. Full-time, 1049; graduates, 152. Part-time, 1147, including 235 Elder Conservatorium of Music.

DEGREES (1937). B.A., 36; M.A., 6; B.Ec., 3; LL.B., 20; LL.D., 1; B.Sc., 14; M.Sc., 1; D.Sc., 2; B.Ag.Sc., 3; B.E., 23; M.E., 1; M.B., B.S., 23; M.D., 4; M.S., 1; Mus.Bac., 1; Dip. in Applied Sci., 22; Dip. in Educ., 3; Dip. in Com., 36; Dip. in Public Admin., 5; Dip. in Music, 5; Dip. in Pharmacy, 10; Final Certif. in Law, 7.

UNIVERSITY OF MELBOURNE

Founded 1853

VISITOR—H.E. THE GOVERNOR OF VICTORIA.

CHANCELLOR—Sir JAMES WILLIAM BARRETT, K.B.E., C.B., C.M.G., LL.D. Manit., M.D., M.S., F.R.A.C.S., F.R.C S.

DEPUTY-CHANCELLOR—Rt. Hon. Sir JOHN GREIG LATHAM, G.C.M.G., K.C., M.A., LL.M., Chief Justice of the Commonwealth.

VICE-CHANCELLOR—J. D. G. MEDLEY, M.A. Ox.

REGISTRAR—J. F. FOSTER, M.A., LL.M.

LIBRARIAN—LEIGH SCOTT, M.A.

TEACHING STAFF

Accountancy, v. Com.

Agriculture, v. *infra*

Anatomy

Sunderland, S., M.B., B.S. Prof.
Rowlands, E. A., M.B., B.S. Actg. Prof.
Russell, K. F., M.B., B.S. Sr. Lectr.
Matheson, A. D., M.B., B.S. Stewart Lectr.
Bottomley, E. E. K., M.B., B.S., M.R.C.P. (Histol.) Lectr.
Coates, A. E., M.D., M.S. (Surg. A.) Ind. Lectr.
O'Sullivan, T. J., M.D., B.S., D.M.R. & E. Camb. (Radiological A.) Hon. Demr.

Architecture

Gawler, J. S., F.R.V.I.A. Ind. Lectr.
Sutherland, G. J., Dip.Arch. Lectr.
Irwin, L., A.R.I.B.A., F.R.A.I.A. Dir. of Atelier.
Scarborough, J. F. D. Asst. Lectr. & Demr.
Good, Eileen M. F., Dip. Arch. Sr. Demr.
Schmerberg, R., Dip.Arch. Des. Demr.
Ellis, R. O. Instr.
Dalton, A. O., Dip. Arch. Des. Instr.
Hopkins, R. E., B.Arch. Instr.

Bacteriology, v. Med.

Biochemistry

Young, W. J., M.Sc. Manc., D.Sc. Lond. & Melb. Prof.
Law, Kathleen A. O., M.Sc. Lectr.
Millis, Jean, M.Sc. Sr. Demr.

Botany & Plant Physiology

Turner, J. S., M.A., Ph.D. Camb. Prof.
McLennan, Ethel I., D.Sc. (Bot. and Plant Pathol.) Assoc. Prof.
Patton, R. T., D.Sc., M.F. Harv., D.I.C. Lond. (Bot. and Agric. Bot.) Sr. Lectr.
Cookson, Isabel C., D.Sc. Lectr.
Grieve, B. J., M.Sc., Ph.D. Lond. Lectr.
Fisher, Eileen E., Ph.D. Camb., M.Sc. Sr. Demr
Fawcett, Stella G. M., M.Sc. Demr.

Chemistry, v. also Physiol.

Hartung, E. J., D.Sc. Prof.

Davies, W., D.Sc. Manc. and Melb., D.Phil. Ox. (Organic C.) Assoc. Prof.
Anderson, J. S., Ph.D., A.R.C.S., D.I.C. (Gen. and Inorganic C.) Sr. Lectr.
Ampt, G. A., B.Sc. Sr. Lectr.
Heymann, E, Ph D. Frankfurt (Gen. Phys. and Inorg. C.) Sr. Lectr.
Anderson, V. G. (Principles of Applied C.) Lectr.
Hatt, H. H., B.Sc., Ph.D. Lond., A.I.C. (Org. C.) Lectr.
Sugden, Ruth, M.Sc. Sr. Demr.
Scott, Margaret E., B.Sc. Sr. Demr.

Classical Philology

Scutt, C. A., M.A. Camb. and Melb. Prof.
Kerry, W., M.A. Camb. and Melb. Sr. Lectr.
O'Brien, J. L., B.A. Camb. and Syd. Lectr.
Hunt, H. A. K., B.A. Syd. and Ox., Dip.Ed. Lectr.

Commerce

Copland, D. B., C.M.G., M.A., D.Sc. N.Z., Litt.D. Prof.
Wood, G. L., M.A. Adel., Litt.D. (Econ. and Econ. Geog.) Assoc. Prof.
Prest, W., M.A. Leeds, M.A. Com. Manc. (Econ.) Sr. Lectr.
Burton, H., M.A. Ox. (Econ. Hist.) Sr. Lectr.

Lecturers

Weller, G. A., B.Com. (Econ.)
Foenander, O. de R., LL.M. (Econ.).
Fitzgerald, A. A., B.Com., F.I.C.A. (Acctcy.).
Norris, J. G., LL.M. (Law).
Whitlam, A. G., B.A., B.Com. (Marketing).
Anderson, G., M.A., LL.M., M.Com. (Indust. Relations) Hon. Lectr.
Schumer, L. A., A.I.C.A., F.A.I.S., F.C.A.A. (Cost Acctcy.).
Anderson, M. V., B.Com. (Cost Acctcy.).
Aird, J. A., B.Agr.Sc., Dip.Com. (Public Admin.).
Fitzgerald, G. E., B.A., B.Com. (Acctcy.) Asst. Lectr.
Eddy, J. W. M., B.Com. (Indust. & Financial Organization) Asst. Lectr.
Goldberg, L., B.Com. (Accountancy) Tutor.
Weller, G. A., B.Com. (Indust. & Financial Organization) Tutor.
Williams, W. K., B.A. (Statistical Method) Tutor.
Nicholls, Annie, M.Sc. (Econ. Geog.) Tutor.
Eggleston, R. M., LL.B. (Law) Tutor.

Dentistry, v. Affiliated Colls.

Dutch

Lodewyckx, A., M.A. Cape and Melb., Litt.D. Ghent Instr.

Economics, v. also Com.

Giblin, L. F., D.S.O., M.C., M.A. Camb. and Melb. Ritchie Prof.
Firth, C. G., B.Sc. (Econ.) Lond. Research Fellow.

Education

Browne, G. S., M.C., M.A. Ox. and Melb, Dip.Ed. Ox., Lond. and Melb. Prof.
Sharman, M. S., M.A., M.Sc. Sr. Lectr.

Lecturers

Frederick, W. H., M.A., Dip.Ed.
Cunningham, K. S., M.A., Ph.D. Columb., Dip.Ed.
Radford, P., M.A. Ox.
Norris, F. K., M.D., B.S. (Health Education)
Hoy, Alice, M.A., LL.B., Dip.Ed.
Wilson, H. W., O.B.E., M.C., M.Sc.

Ellwood, W. H., M.A., M.Ed.
Benjamin, J. A.
Ramsay, A. H., B.Sc., Dip.Ed.
Webb, Irene H.
McConkey, Sylvia.
Duras, F., Dr.Med. Freiburg (Phys. Edn.) Carnegie Lectr.

Engineering, v. also Agric. *infra*
Burstall, A. F., Ph.D. Camb., M.Sc. Birm., D.Sc. Prof.
Brown, E. B., D.Sc., A.C.G.I. (Elec. E.) Assoc. Prof.
Sexton, C. W. N., M.C.E., M.Inst.C.E. (Civ. E.) Sr. Lectr.
Darwin, E. R. H., B.Sc. Adel., L.S. (Surveying) Sr. Lectr.
Rennie, E. J. C., M.E. (Mech. Eng. & Aerodyn.) Sr. Lectr.
Shaw, M., M.Eng. Sheff. Sr. Lectr.
Mirfield, T. N., B.Mech.E., B.E.E. (Mech. Eng.) Lectr.
Sublet, F. G. A., M.E.E., B.Mech.E. (Elec. Eng.) Lectr.
Alexander, G. N., B.C.E. (Graphlic and Eng. Des.) Lectr.
Loder, L. F., M.C.E. (Roads) Lectr.
Laszlo, F., Dr.Ing. Darmstadt (Strength of Materials, Theory of Structures) Lectr.
Summons, W. E., M.D., B.S., D.P.H. (Ambulance) Lectr.
Woods, M. W., B.E., B.Sc. Tas., D.Phil. Ox. Research Officer.
Lawrence, T. F. C., B.Sc., B.E. Syd. Testing Officer.
Green, K. D., B.C.E. (Civ. Eng.) Sr. Demr.
McLean, D. C. A. G., B.E.E. (Elec. Eng.) Sr. Demr.
Muller, D. O., B.C.E. (Strength and Elasticity of Matls.) Sr. Demr.
Bidgway, C. V. (Mech. Eng.) Demr.
Mackenzie, D. (Machining) Demr.

English Lang. and Lit.
Cowling, G. H., M.A. Leeds and Melb. Prof.
Derham, Enid, M.A. Sr. Lectr.
Seccombe, H. G., B.Litt. Ox., B.A. Sr. Lectr.
Macartney, K. L., M.A. Camb., B.A. Lectr.

Tutors
Jennings, Vera C., M.A.
McIntyre, K. G., B.A.
Thomas, L. N. B., B.A.

French
Chisholm, A. R., B.A. Syd. and Melb., O.A. Prof.
Karagheusian, V. N. T. Sr. Lectr.
Taylor, A. C., B.A. Syd., D. de l'U., D. ès L. Paris Lectr.
Callil, F. A. L., M.A. Tutor.
Coverlid, Dorothea R., M.A. Tutor (Science Students).

Geology and Mineralogy [Prof.
Skeats, E. W., D.Sc. Lond. and Melb., A.R.C.S. Lond., F.G.S.
Summers, H. St. J., D.Sc. Assoc. Prof.
Singleton, F. A., M.Sc. (Palæontol. and Agric. G.) Sr. Lectr.
Hills, E. S., Ph.D. Lond., M.Sc. Lectr.
Hauser, H. B., M.Sc. Sr. Demr.
Mann, J. S. Demr.

German
Lodewyckx, A., M.A. Cape and Melb., Litt.D. Ghent Assoc. Prof.
Egremont, H. G. Lectr
Coverlid, Dorothea R., M.A. Tutor (Science Students).

Histology, v. Anatomy

History
Crawford, R. M., B.A. Syd. & Ox., M.A. Prof.
Webb, Jessie S. W., M.A. Sr. Lectr.
Fitzpatrick, Kathleen E., M.A. Ox. Lectr.

Wilcher, L. C., B.A. Adel. & Ox., B.Litt. Ox. Lectr.
Foenander, O. de R., LL.M. Evening Lectr.
Phillips, P. D., M.A., LL.B. (Internat. Relations) Lectr.
Burton, H., B.A., Q'ld., M.A. Ox. (Constit. Hist.) Lectr.

Tutors

Mulvany, J. F., M.A., LL.B.
Harper, N. D., M.A., Dip.Ed.

Italian

Schiassi, O., LL.D. Bologna Instr.

Japanese

Inagaki, M. Instr.

Law, v. *infra*

Mathematics, Pure and Mixed

Cherry, T. M., Ph.D. Camb., B.A. Prof.
Gundersen, G., B.Sc. Sr. Lectr.
Belz, M. H., M.Sc. Camb. Sr. Lectr.
Urquhart, M. L., B.Sc. Tas. Lectr.
Hutton, Eleanor S., B.A. Camb., B.Sc., W.A. Tutor.
Miller, A. R., B.A., B.Sc. Tutor.

Medicine, v. *infra*

Metallurgy

Greenwood, J. Neill, D.Sc. Manc. and Melb. Prof.
Thompson, P. F. Sr. Lectr.
Worner, H. K., M.Sc. Lectr.
Boas, W., D.Eng. Berlin Carnegie Lectr.
Hirst, H., B.Sc. (Eng.) Lond., Nat. Phil.D. Freib. Asst. Research Director.
Lumley, E. J. T. Sr. Demr.

Music

Heinze, B. T., F.R.C.M., Degré Sup., Schola Cantorum, Paris Ormond Prof.

Natural Philosophy

Laby, T. H., M.A., Sc.D. Camb., F.R.S., F.Inst.P Prof.
Hercus, E. O., D.Sc., F.I.P. Assoc. Prof.
Martin, L. H., Ph.D. Camb. Assoc. Prof.
Rogers, J. S., M.C., B.A., M.Sc., Dip.Ed., F I.P. Sr. Lectr.
Loewe, F. (Meteorol.) Carnegie Lectr.
Burhop, E. H. S., B.A., Ph.D. Camb., M.Sc. Res. Physicist.
Bingham, R. T. W., M.Sc. Lectr. and Demr.
Allen, Natalie C. B., B.Sc. N.Z., M.Sc. Sr. Demr.
Nelson, Edith A., M.A., M.Sc. Sr. Demr.
Abraham, H. J. M., M.Sc. N.Z. Sr. Demr.
Kannuluik, W. G., D.Sc. Sr. Demr.

Philos., Mental & Moral

Gibson, A. Boyce, M.A. Ox., B.A. Prof.
Taylor, D., M.A. W. Aust. Sr. Lectr.
Ball, W. M., M.A. (Polit. Phil. & Mod. Polit. Instns.) Sr. Lectr.
Paul, G. A., B.A. Camb., M.A. St. And. Lectr.
Davies, Dorothy M., B.A. (Polit. Phil. & Mod. Polit. Instns.) Tutor.
Atkins, G. A., M.A., M.Sc. Evening Lectr. and Tutor.
Warren, Olga M., M.A. Tutor.

Physics, v. Nat. Philos

Physiology

Wright, R. D., M.B., M.S., F.R.A.C.S. Prof.
Maxwell, L. A. I., M.Sc., B.Agr.Sc., M.D., B.S. Sr. Lectr.
Brewster, Blanche L. Demr.
Hutchinson, Margaret Demr.
Kilvington, T. B., B.Sc. Demr.

Pub. Health, v. Med. *infra*

Russian

Goode, J. S., M.E. Petrograd Instr.

Scandinavian Languages

Lodewyckx, Mrs. A. Instr.

Spanish

Spiwakowsky, Erika, Ph.D. Berlin Instr.

Veterinary Science, v. *infra*

Zoology

Agar, W. E., O.B.E., M.A. Camb., D.Sc. Glas. and Melb., F.R.S. Prof.

Tiegs, O. W., D.Sc. Adel. Assoc. Prof.

Buchanan, Gwynneth V., D.Sc. Sr. Lectr.

Drummond, F. H., B.Sc. W.A. Sr. Demr.

Law

Bailey, K. H., M.A., B.C.L. Ox., LL.M. (Public Law) Prof.

Paton, G. W., B.A., B.C.L. Ox., M.A. (Jurispr.) Prof.

Lecturers

Smith, T. W., M.A., LL.M. (Contracts, etc.).

Adam, A. D. G., B.A., LL.B. (Land, etc.).

Coppel, E. G., LL.D. (Procedure).

Dean, A., LL.M. (Equity).

Phillips, P. D., M.A., LL.B. (Private Internat. L. and Internat. Rel.).

Sawer, G., LL.M. (L. affecting Journalism).

Coghill, E. H., LL.M. Tutor.

Eggleston, R. M., LL.B. Tutor.

Agriculture

v. also Bot. *supra*

Wadham, S. M., M.A. Camb. and Melb., Agr. Dip. Camb. Prof.

Lecturers

Talbot, R. J. de C., B.V.Sc. (Animal Husbandry).

Kerr, J. M. (Dairying).

Wilson, H. C. (Agric.).

Grieve, B. J., Ph.D. Lond., M.Sc. (Plant Pathol.).

Leeper, G. W., M.Sc. (Agr. Chem.).

Quin, D. G. (Viticulture).

McDonald, G. W. (Wool Classing).

Gorrie, C. J. R., B.V.Sc. (Vet. Path.).

Read, F. M., M.Agr.Sc. (Hortic. Sc. & Practice).

Daley, O. I. C. (Dairy Technol.).

Scharp, L. R., B.Agr.Sc. (Dairy Technol.).

Bryden, W., B.A., M.Sc. N.Z., Ph.D. Edin. (Vet. Dietetics).

Raff, Janet W., M.Sc. (Entomol.).

Vasey, G. H., B.C.E. (Agric. Eng.).

Lang, P. S., B.Agr.Sc. Research Asst.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Kaye, G. A., M.D., B.S. Lectr.

Bacteriology

Woodruff, H. A., B.Sc., M.R.C.S., L.R.C.P., M.R.C.V.S. Prof.

Dattilo-Rubbo, S., Ph.D., Dip. Bact. Lond., B.Sc., M.P.S. Syd. Sr. Lectr.

Gundersen, Sara E., B.Sc., M.B., B.S. Lectr.

Hayward, Nancy J., M.Sc. Sr. Demr.

Ethics, Medical

Downes, R. M., C.M.G., V.D., M.D., B.S., F.R.A.C.S. Lectr.

Forensic M.

Mollison, C. H., M.B., B.S., M.R.C.S. Eng. Lectr.

Laryngology and Otology

Gutteridge, E. W., V.D., M.D., B.S., F.R.A.C.S., F.R.C.S.E. Lectr.

Mat. Med. and Pharmacy

Stanton, B. L., M.B., B.S., M.R.C.P. Lectr.

Medicine

Cowen, S. O., M.D., B.S. Stewart Lectr.
Cox, L. B., M.D., B.S. Lectr.
Hurley, L. E., M.D., M.S. Lectr.
Newton, W. S., M.D., B.S. Lectr.
Hayden, J. G. E., M.D., B.S., M.R.C.P. Lectr.

Medicine, Clinical, and Clin. Surg.

Staffs of the Melb., Alfred, and St. Vincent's Hospls.

Obst. and Gynæc.

Allan, R. M., M.C., M.D. Edin. and Melb., F.R.C.S.E., F.R.A.C.S., F.C.O.G., L.M. Dublin Prof.
Campbell, Kate I., M.D., B.S. (Infant Welfare) Lectr.
Green, J. S., M.D., B.S., D.G.O. Dubl., M.C.O.G. Thalia Roche Demr.

3 Demrs.

Pathology

MacCallum, P., M.C., M.A., M.Sc. N.Z. and Melb., M.B., Ch.B., D.P.H. Edin., M.R.C.P. Edin. Prof.
..... Sr. Lectr.
Cooper, E. L., M.D., B.S. Stewart Lectr.
Somerset, J. B., M.D., B.S. Lectr.
Cox, L. B., M.D., B.S., M.R.C.P. (Neurological P.) Hon. Lectr.
Horan, J. P., M.D., B.S. Lectr. & Demr.

Psychology

Gunn, Prof. J. A., M.A., Ph.D. Liv., B.Sc. Lond. Lectr.

Public Health

Dale, J., O.B.E., B.Sc. (Pub. Health), M.D., Ch.B. Birm., M.R.C.S., L.R.C.P. Lectr.

Radiology

Praagst, H. F., M.B., B.S. Lectr.
Stephens, F. G., M.B., B S. Lectr.
O'Sullivan, T. J., M.D., B.S., D.M.R.E. Camb. Lectr.

Surgery

Hurley, T. E. V., C.M.G., V.D., M.D., M.S., F.R.C.S., F.R.A C.S. Stewart Lectr.
Shaw, C. G., D.S.O., V.D., M.D., B.S., F.R.C.S. Lectr.
Hailes, W. A., D.S.O., M.B., B.S., F.R.C.S , F R.A.C.G. Lectr.
Quick, B., M.B., B.S., F.R.C.S. Lectr.
Searby, C. H. C., M.D., M.S., F.R.C.S. Actg. Lectr.
Smith, J. O., M.D., B.S., F.R.C.S. Stewart Lectr.
Trumble, H. C., M.B., B.S., F.R.C.S. Guy Miller Tutor.

Therapeutics

Lawton, F. D. H. B., O.B.E., M.B., B.S., F.R.C.P. Lectr.
Major, J. P., M.D., B.S. Lectr.
Newing, W. J., M.D., B.S. Lectr.

Venereal Diseases

Mortensen, H. N., M.B., M.S., F.R.C.S.E., F.R.A.C.S. Lectr

Veterinary Science

Albiston, H. E., D.V.Sc. Dir.
Gorrie, C. J. R., B.V.Sc. Res. Scholar.
Bethell, Elaine, B.Sc. Res. Scholar.

V. Parasitology

Pullar, E. M., M.V.Sc. Lectr.

University Extension

Badger, C. R., B.A. Director.
30 Tutors.

RESIDENTIAL COLLEGES—Controlled by representatives of the Churches but open to members of all religious denominations:

TRINITY COLLEGE (Church of England). Warden, J. C. V. Behan, M.A., B.C.L. Ox., LL.D. Dean, L. C. Wilcher, M.A. Adel., B.A. Ox. Principal of Janet Clarke Hall, Miss Enid Joske, M.A., Dip.Ed. 14 other Tutors.

ORMOND COLLEGE (Presbyterian). Master, D K. Picken, M.A. Camb., Glas., and Melb.; Vice-Master, H. W. Allen, M.A. 17 other Tutors.

QUEEN'S COLLEGE (Methodist). Master, R. C Johnson, M.A. Ox., D.Sc., Lond. & Melb., Ph.D. Lond. Vice-Master, R. T. Sussex, D. ès L. Paris, M.A., LL.B. 17 other Tutors.

NEWMAN COLLEGE (R.C.). Rector, V. Rev. J. M. Murphy, S.J., M.A.; Dean, Rev. D. Kelly, S.J., M.A., Superior of St. Mary's Hall, Mother Patrick I.B.V.M. 20 Tutors.

UNIVERSITY WOMEN'S COLLEGE. Principal, Miss Greta Hort, M.A. Copenhagen, Ph.D. Camb. 8 Tutors.

OTHER AFFILIATED INSTITUTION

AUSTRALIAN COLLEGE OF DENTISTRY. Principal, Prof. A. B. P. Amies, D.D.Sc., L.R.C.P., L.R.C.S. Edin., D.L.O. Other Lectrs. (excluding those on Univ. staff): C. E. Allen, D.D.Sc., L.D.S.; J. McF. Wark, B.D.Sc., L.D.S.; H. C. Trumble, M.B., B.S., F.R.C.S., F.R.A.C.S.; W. J. Tuckfield, F.A.C.D., D.Sc. Chic.; C. H. Down, B.D.Sc., L.D.S.; K. T. Adamson, D.D.Sc., L.D.S.; J. M. Lewis, M.A.C.D., D.D.Sc.; E. T. T. Downie, M.D., B.S., M.R.C.P. Lond.; A. D. Craven, B.D.Sc., L.D.S.; E. A. Lucas; F. Maclure, O.B.E., M.D., B.S., F.R.C.S., F.R.A.C.S.

GENERAL INFORMATION

The Univ. was founded in 1853 by Act of the Victorian Legislature. Subsequent University Acts have increased the annual endowment for general purposes to £45,000 and provided an additional grant of £6000 for Univ. Extension and Research, besides making constitutional changes. The Council is now composed of 32 members—elected by graduates (10); representatives of the teaching staff (5), of affiliated colleges (2), undergraduates (2); appointed by the Govt. (8) (3 being members of Parliament, the others representing business interests and technical schools); *ex officio* (3); and co-opted members (2). The legislative functions of the old Senate were transferred to a Standing Committee which, in addition, may submit any matter it pleases for the consideration of the Council. Recognition was accorded in an Act of 1923 to the Professorial Board and the Faculties. The grounds, 104 acres, include four 10-acre College sites surrounding a recreation ground of 16 acres.

LIBRARY, 100,000 vols. MUSEUMS AND LABS., Anat., Biol., Engin., Geol., Path. (15,000 specimens), Vet. LABORATORIES, Aerodynamics (with Wind Tunnel), Agric., Bact. (investigations undertaken for Govt. Hospitals and Med. practrs.), Chem., Dent., Metall. and Mining (with 3-head stamp battery), Physics, Physiol. VET. RESEARCH INSTITUTE. Werribee RESEARCH FARM. HALL RESEARCH INSTITUTE in connexion with Melbourne Hospl.

FACULTIES. (1) Arts, (2) Education, (3) Science, (4) Law, (5) Medicine, (6) Engineering (Incl. Metall., Mining), (7) Architecture, (8) Music, (9) Dental Science, (10) Agricultural Science, (11) Veterinary Science, (12) Commerce.

Deans. Profs.: (1) C. A. Scutt, (2) G. S. Browne, (3) H. A. Woodruff, (4)

K. H. Bailey, (5), (6) A. F. Burstall, (7) J. S. Gawler, (8) B. T. Meinze, (9) A. B. P. Amies, (10) and (11) S. M. Wadham, (12) D. B. Copland.

DEGREE COURSES: 3 yrs.—B.A. (ordinary and Honours), B.Sc., B.Eng.Sc.; 4 yrs.—LL.B., Mus.Bac., B.C.E., B.M.E., B.Met.E., B.E.E., B.Mech.E., B.Agr.Sc., B.Com.; 5 yrs.—B.Arch., B.D.Sc.; 6 yrs.—M.B., B.S.

The 2nd year of the B.Agr.Sc. course is passed at Werribee Research Farm.

HIGHER DEGREES. Open to Bachelors of 1 yr.'s standing—M.Sc., M.Agr.Sc., LL.M.; 2 yrs.'—B.Ed., M.Com., M.D., M.S., M.D.Sc., M.V.Sc.; 3 yrs.'—M.Ed., M.C.E., etc., Mus.D., D.V.Sc.; 4 yrs,'—D.Sc., LL.D., D.D.Sc.; 5 yrs.'—D.Eng.; 7 yrs.'—D.Litt. The M.A. is open to Bachelors of Arts (Honours) of 1 yr.'s standing and Bachelors of Arts (Ordinary) of 2 yrs.' standing. Courses of medical postgraduate study arranged by special Committee on which Univ. is represented.

DIPLOMAS. D.P.H., open to med. grads. of Melb. and persons qualified for registration as med. practr. in U.K., 12 mos.; Dip.Ophth., Dip.L. and O., Dip.G. and O., Dip.T.R. and E., Dip.D.R. and D.P.M., open to med. grads. of 2 yrs.' standing, 15 mos. each. Analyt. Chem., 9 mos. following 3 yrs.' course in Chem.; Dietetics, 1 yr. following B.Sc. or B.Agr.Sc. course; Journalism, Physical Education, 2 yrs.' undergraduate study; Arch. Design, Commerce, Music, Public Administration, 3 yrs.' undergraduate study; Agric., 4 yrs.' undergraduate study.

FEES. Matricn., 2 gs.; Degree, 10 gs.; Degree Courses in Arts, 3 yrs., about 72 gs.; Science, 3 yrs., 90 gs. (4th yr. £25); Agric., 4 yrs., 78 gs.; Laws, 4 yrs., about 102 gs.; Med., 6 yrs., £258 (including Hospl. Fees); Engin., 4 yrs., 120 gs.; Commerce, 4 yrs., 98 gs.; Music, 4 yrs., at conservatorium, 128 gs.; Educ., 2 yrs., 33 gs. Sports and Union Fees, £3 : 12s. p.a.

SCHOLARSHIPS, ETC. Aggregate annual value about £14,000. Among the more important are Research Fellowships of £500 each, Research Scholarships up to £200, and combined Research and Teaching foundations.

The Act of 1923 provided for the admission of the following free students: 15 certificated teachers of the Education Dept. *per annum*; 5 other Govt. officers *per annum*; 50 other persons *per annum*. All other certificated teachers and students of the Teachers' Training College are admitted at half fees.

A *Students' Loan Fund* has assets exceeding £45,000.

RESIDENCE. The Residential Colls. (v. *supra*) accommodate over 500 resident students.

ADULT EDUCATION. Tutorial classes are conducted in the city and suburbs and 11 country centres.

PUBLIC EXAMINATIONS. School Intermediate and School Leaving are held by the Univ. annually in Dec.; the Intermediate qualifies for entry into the State Public Service; the School Leaving certif. qualifies for matricn. under certain conditions. The Univ. also arranges for the Inspection of Secondary Schools.

PUBLICATIONS. *Calendar* (Dec.), 5s. net, includes list of publicns. by members of staff; *Annual Examn. Papers*, in sets, 6d. each; *Handbook of Pub. Examns.*, 3s. 6d.; *Conservatorium Prospectus*; *Manual of Pub. Examns. in Music.* Students' journals: *Melb. Univ. Magazine*; *Farrago* (weekly), *Speculum* (Medical), *The Margin* (Commerce); *Res Judicatæ* (Law); *Science Review* (Science).

The UNIVERSITY PRESS, founded in 1922, has published a number of im-

portant books by members of the Univ. and others embodying results of research in subjects peculiar to Australia. The Oxford University Press acts as distributing agent. It conducts an exchange business in text-books, and caters for students requirements in stationery and apparatus.

THE YEARS 1937, 1938

BENEFACTIONS. Government of Victoria: £75,000, New Commerce Building and Extensions of Engin., Natural Philos. and Bacteriol. Buildings; £50,000, New Chem. Building; £10,000, increased grant; £5000, General Funds; £3000, Unemployment Relief on Grounds Improvements. The late Miss Helen Mackie, £40,296, Emoluments of Medical Chairs. The late C. D. Lloyd, Esq., £18,300, Library and Chem. Buildings. The late Dr. Frank Haley, £17,930, Medical Research. The late W. J. Earl, £10,250. H. V. McKay, Massey Harris Pty., Ltd., and Associated Contributors, £10,000, Engin. School Extension. Anti-Cancer Council, £6500, X-ray and Radium Laboratory. Sidney Myer Charitable Trust, £5000, Commerce Building. The late Sam McKay, Esq., £2000, Union Building. Carnegie Corporation of New York, £1700, Lectureships for Displaced German Scholars; £250, Adult Education. The late Sir John MacFarland, £1387, Union Building. Imperial Chemical Industries of Australia and New Zealand, Ltd., £1000, Chem. Building. Victorian Chamber of Manufactures, £1000, General Funds. Percy Grainger, £1000, Music Museum. Russell Grimwade, £1000, Grounds Improvement. Broken Hill Associated Smelters Pty., Ltd., £1000, Lead Research. The late Miss F. K. M. Curdie, £1000, Science Research Scholarship. Mining and Metallurgical Bursaries Fund, £360, Chair of Metallurgy; £240, Bursaries and Research Scholarships in Metallurgy and Mining. Lady Northcote Permanent Orchestra Trust, £400, Retained Orchestral Players. Walter and Eliza Hall Trust, £300, Vet. Sci. Research. The late Miss M. A. Bartlett, £284, Research Schols. Fund. J. W. O. Hamilton, £200, Radio Research Prize. The late W. R. Pearson, £100, Econ. Schol. Fund; £100, Tubercular Research. Union Can Company Pty., Ltd., £105, Engin. School Extension. National Bank of Australasia, Ltd., £100, General Funds. Messrs. Mitchell & Co. Pty., Ltd., A.R.C. Engineering Co., Ltd., and Kraft Walker Cheese Co. Pty., Ltd., £100 each, Engin. School Extension. A.N.T., £100, Cancer Research.

NEW BUILDINGS. A new Chemistry School at a cost of £80,000 provided by Govt. of Victoria and public subscription; X-ray and Radium Laboratory.

NEW POSTS. Chairs of French and Biochem.; Associate Professorship in Natural Philosophy; Carnegie Lectureship in Metallurgy; Lectureships in Chemistry, History, Diseases of Children.

CHANGES IN REGULATIONS. New regulations establishing Dipl. in Physical Educ., a degree of B.Eng.Sc., chairs in French and Biochemistry, and an Ormsby Hamilton Radio Prize. Reorganization of the School of History, Statute of affiliation of a University Women's College.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. A. F. W. Plumptre (Toronto) and Assoc.-Prof. J. A. Maxwell (Clark Univ.), series of lectures on Economics and Banking, Currency and Exchange; Prof. J. H. Kolb (Wisconsin), lecture on Adult Education in U.S.A.

STAFF ABROAD ON LEAVE. During 1938, Prof. G. H. Cowling, Prof. L. F. Giblin, Prof. G. W. Paton, Prof. B. T. Heinze, Mr. W. M. Ball, Dr. V. Hurley, Miss V. C. Jennings.

DEATHS. Prof. A. J. Ewart (Botany); L. Galbraith (Civil Engin.).

RETIREMENTS. Prof. W. A. Osborne (Physiology); A. W. Greig (Registrar).

RESIGNATIONS. Dr. R. E. Priestley, Vice-Chancellor, on appt. as Vice-Chancellor, Univ. of Birmingham; Dr. N. S. Bayliss, on appt. to Chair of Chem., Univ. of Western Australia; J. G. Cornell, on appt. to Dept. of French, Univ. of Adelaide; Dr. B. Cavanagh (Phys. Chem.); A. N. Hambly (Org. Chem.); G. B. O'Malley (Min. and Met.).

HONORARY DEGREES. *Litt.D.*—Dr. I. L. Kandel, Columbia Univ. *LL.D.*—F. C. Happold, Cambridge, Dr. F. W. Hart, Columbia Univ., Yusuke Tsurumi, Tokyo Imperial Univ., L. Zilliacus, Finland, delegates to the New Education Fellowship Conference held in Melbourne, August 1937. Sir G. G. Whiskard, High Commissioner for the U.K. in Australia, the Rt. Hon. J. A. Lyons, Prime Minister of the Commonwealth of Australia. *D.Eng.*—H. E. Wimperis, Adviser to the Commonwealth Government on Aeronaut. matters.

STUDENTS (1937). Total, 3861; not attending lectures but receiving tuition by correspondence, 302.

UNIV. EXTENSION. Tutorial class students, 1765; correspondence students 15; extension lectures, 65.

DEGREES. B.A., 99; M.A., 30; B.Ed., 27; M.Ed., 3; B.Arch., 4; B.Com., 21; LL.B., 35; LL.M., 3; LL.D., 8; B.Sc., 55; M.Sc., 17; D.Sc., 4; B.C.E., 8; M.C.E., 2; B.Mech.E., 6; B.E.E., 7; B.Met.E., 4; B.M.E., 3; B.Agr.Sc., 8; M.Agr.Sc., 2; D.V.Sc., 1; M.B., B.S., 88; M.D., 9; M.S., 3; B.D.Sc., 10; D.D.Sc., 3; Mus.Bac., 5.

UNIVERSITY OF QUEENSLAND, BRISBANE

Founded 1909

CHANCELLOR—The Hon. Chief Justice Sir J. W. BLAIR, K.C.M.G.
VICE-CHANCELLOR—J. D. STORY, I.S.O
REGISTRAR—C. PAGE HANIFY, M.V.O., F.I.C.A.

TEACHING STAFF

Agriculture

Murray, J. K., B.A., B.Sc. (Agr.) Syd. Prof.

Lecturers

Bryan, W. W., M.Sc Agr. (Genetics).
Skerman, P. J., M.Sc.Agr. (Crops).
Briton, N. W., B.V.Sc. (Animal Husbandry)
Keats, R. R., M.D.D. (Dairying and Dairy Manufact.).
Barratt, T. J. (Farm Eng.).
Davis, W. T., A.F.I.A. (Farm Bookkeeping).
Howie, J. W., (Principles of Hortic.).
3 Specialist Lectrs.

Anatomy

Wilkinson, H. J., B.A. Adel., M.D., Ch.M. Syd. Prof.
Meyers, E. S., M.B., Ch.M. Syd., F.R.A.C.S. Lectr.
Lynch, J. A., M.B., B.S. Melb. Pt.-time Lectr.
11 Hon. Demonstrators

Biblical Literature

Innes, Rev. H. S. R., B.A. Syd. Pt.-time Lectr.

Biochemistry [Lectr.

Hines, H. J. G., B.Sc. (Agr.) Lond.

Biology

Goddard, E. J., B.A., D.Sc. Syd. McCaughey Prof.
Hamlyn-Harris, R., D.Sc. Lectr.
Cayzer, A., B Sc. Syd. Lectr.
Herbert, D. A., D.Sc. Melb. (Bot.) Lectr
Perkins, F. A., B.Sc. (Agr.) Syd. (Econ. Ent.) Lectr.
Macpherson, R. K., M.Sc. Sr. Demr.
Mee, A. E. Demr.

Biophysics

Webster, H. C., M.Sc. Melb., Ph.D. Camb., F.I.P., F.R.M.S. Lectr.

Chemistry

Bagster, L. S., D.Sc. Adel. Prof.
Edmiston, E. S., B.Sc., B.Sc. (Applied) (Industrial) Lectr.
Jones, T. G. H., D.Sc. Syd., A.A.C.I. Lectr.
O'Connor, E. A., M.Sc. Melb. Lectr.
2 Specialist Lectrs.

Classics [Prof.

Michie, J. L., M.A. Camb., LL.D.
Castlehow, S., M.A. Ox. Lectr.
Freeman, Margaret, M.A. Tutor.

Commerce

9 Pt.-time Lectrs.

Dentistry, v. *infra*

Education and Experimental Psychology

Ringrose, E. C. D., B.A., B.Sc., M.Ed. Lectr.

Engineering
Hawken, R. W. H., B.A., M.E. Syd., M.I.C.E., M.I.E. Aust. Prof.
Boyd, A., D.Sc. Lond., B.E. Syd., M.I.E.E. (Mech. & El. E.) Lectr.
Ross, C. N., M.Sc. Tas., B.M.E. Melb., M.I.E. Aust. (Civ. E.) Lectr.
Munro, A. R., B.E. Lectr.
Stoney, A. J. M'C., B.E.E. Melb. Sr. Demr. & Asst. Lectr.
Cummings, R. P., A.R.I.B.A., Dip. Arch. (Build. Con. and Arch.) Lectr.
14 Specialist Lectrs.

English Language and Lit.
Stable, J. J., M.A. Camb. Darnell Prof.

Forestry
White, C. T. (Forest Bot.) Pt.-time Lectr.

Geology and Mineralogy
Richards, H. C., D.Sc. Melb. Prof.
Bryan, W. H., D.Sc. Lectr.
Whitehouse, F. W., Ph.D. Camb., M.Sc. Lectr.
Robinson, E. V. Demr.

History and Economics
Alcock, H., M.A. Ox. McCaughey Prof.
Melbourne, A. C. V., M.A. Adel., Ph.D. Lond. Assoc. Prof.
Gifford, J. L. K., M.A. Glas. Lectr.
Richmond, N. MacD., B.A. N.Z. and Ox. (Econ. H.) Lectr.

Japanese Civilisation, History of
Seita, R., M.A. Tokio Lectr.

Journalism
Pt.-time Lecturers
Cummins, W. H. H.
Berry, D.
Bingham, C.
Holmes, J. G.
McKinnon, F.
Moore, W.
Muddle, H. O. S.
Rayner, P. H.
Revill, L.
Thomas, A. H.
Perry, R. R.
Kittle, W. E.

Law [Garrick Prof.
Hedges, R. Yorke, LL.D. Manc.
Fry, T. P., M.A., B.C.L. Ox., Sc.Jur.D. Harv. Lectr.
Harrison, W. N. L., B.A. and Social Science Lectr.
5 Specialist Lectrs.

Mathematics
Simonds, E. F., M.A., B.Sc. Syd., Ph.D. Col. Prof.
Raybould, Ethel H., M.A. Lectr.
McCarthy, J. P., M.A Lectr.

Modern Languages, v. also Inst. of Mod. Langs., *infra*
Robinson, F. W., M.A. Syd., Ph.D. Jena Lectr.
Schindler, C., M.A. Lectr.
Tommerup, H. G., B.A. Part-time Lectr.
Mahoney, J. C., M.A., B.Litt. Ox. Asst. Lectr.

Music
May, S. Lectr. and Organizer.

Philosophy
..... Prof.
Kyle, W. M., M.A. Lectr.
McCulloch, Doris E., B.A. Tutor.

Physics
Parnell, T., M.A. Camb. Prof.
Lusby, S. G., B.A. Camb., M.A. Syd. Asst. Prof.
Reimann, A. L., D.Sc. Adel., Ph.D. Berlin Lectr.
Robertson, D. F. Demr.

Physiology
Lee, D. H. K., M.Sc., M.B., B.S. Syd. Prof.
Boissard, G. P. B., B.Sc. Lectr.
3 Hon. Demonstrators

Surveying

James, F. W., M.Sc. Lectr.

Medicine

(For subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Gynæcology

1 Specialist Lectr.
2 Clinical Lectrs.
2 Tutors

Medical Psychology

Lowson, J. P., M.A., M.D. Edin. Research Prof.

Medicine

Murphy, A. P , M.B., Ch.M. Syd. Pt.-time Lectr.
Williams, C. H., B.Sc. (Pract. Pharm.) Demr.
4 Specialist Lectrs.
5 Clinical Lectrs.
6 Tutors

Obstetrics

Shedden-Adam, G. W., M.B., B.S. Syd. Prof.
3 Specialist Lectrs.
4 Clinical Lectrs.
7 Tutors

Pathology and Bacteriology

Duhig, J. V. J., M.B. Syd. Hon. Prof.
Gutteridge, N. M., M.B., B.S. Melb. Pt.-time Lectr.

Physiotherapy

Crawford, H., M.B., B.S., F.R.A.C.S. Pt.-time Lectr.
Trotter, Miss M. A., B.Sc. Pt.-time Lectr.
Clark, L. E. Demr.
Hopkins, D. P. Demr.

Psychiatry v. also Med. Psychol.

Lowson, Prof. J. P., M.A., M.D. Edin. Demr.

Social and Tropical Medicine

Cilento, Sir R. W., K.B., M.D. Adel. Hon. Prof.

Surgery

Sutton, N. G., M.B., Ch.M. Syd., F.R.C.S.Ed., F.R.A.C.S. Pt.-time Lectr.
11 Specialist Lectrs.
3 Clinical Lectrs.
5 Tutors

Dentistry

Lumb, S. E., D.D.Sc., L.D.S. Melb. Prof.
Hoole, A. J., L.D.Q. Lectr.
Pohlman, P. H. Snr. Demr.

Pt.-time Lecturers

Bennett, F. C., B.Sc. (Mat. Med.).
Duhig, J. V. J., M.B. Syd. (Bact. & Path).
Earnshaw, P. A., M.B., Ch.M. (Dis. of Children in relation to Teeth).
Foxton, H. V., M.B., Ch.B. Melb., F.R.A.C.S. (Dis. of Ear, Nose & Throat).
Goldfinch, H., B.D.S. Syd., D.D.Sc. Tor. (Peridontia).
Gutteridge, N. M., M.B., B.S. Melb. (D. Path. & Bact.).
McNaught, A. V. (Radiography).
Murphy, Ellis V., M.B., Ch.M.Syd., M.R.C.P. Lond. (Anæsth.).
Rheuben, R. P., D.D.S. Minn. (Advd. Prosth., Crown & Br. Work & Ceramics).
Robertson, A., B.D.Sc. (Gen. Anæsth.).
Rosentengel, B. L., D.D.S. Penn., L.D.Q. (Orthod.).
Rossiter, A., L.D.Q. (D. Mat. Med. & Op. D. Surg.).
Watkins, S. B., M.Sc. (Metall.).
Wilkinson, Prof. H. J., B.A. Adel., M.D., Ch.M. Syd. (Comp. D. Anat. and D. Embryol. and Histol.).

Veterinary Science

Seddon, H. R., D.V.Sc. Melb. Prof.

Bennett, W. G., B.V.Sc. Melb. Lectr.
Brettingham-Moore, G. R. E., B.Sc., B.V.Sc. Syd. Asst. Lectr.
Roberts, F. H. S., D.Sc. Sp. Lectr.

Macrossan Memorial Lecturer

1938, The Acting Justice A. D. Graham (Supreme Court of Queensland). Subject—" The Life of Sir Samuel Griffith."

John Thomson Lecturer

1938, Prof. H. C. Richards, D.Sc. Subject—" The Great Barrier Reef."

External Studies

Thatcher, T., B.A. Director.
Darvall, Annie E. J., B.A. Asst.
Clarke, G., B.A. Asst.
Popple, M.A., B.A. Asst.

Institute of Modern Languages

Pt.-time Lecturers
Robinson, F. W., M.A. Syd., Ph.D. Jena (Art of Speech).
Tommerup, H. G., B.A. (Dutch German, and Art of Speech).
..... (Chinese).
Mahoney, J. C., M.A., B.Litt. (French).
Schindler, C., M.A. (French).
O'Connor, E. A., M.Sc. (German, Science).
Innes, Rev. H. S. R., B.A. (Hebrew).
Luciano, G. (Italian).
Seita, R., M A. Tokio (Japanese).
Maximoff, Miss N. (Russian).

Workers' Tutorial Classes

Richmond, N. MacD., B.A. N.Z. and Ox. Director.
8 Pt.-time Lectrs.

RECOGNIZED RESIDENTIAL COLLEGES

EMMANUEL (Presb.). Principal—Rev. Mervyn Henderson, M.A. Camb.

ST. JOHN'S (C. of E.). Acting Warden—Rev. J. E. Norman Osborne, M.A. Ox.

KING'S (Methodist). Master—Rev. H. H. Trigge, M.A., B.D. Melb.

ST. LEO'S (R.C.). Rector—Rev. P. Meenagh, C.M., M.A.

WOMEN'S (undenominational). Principal—Freda Bage, M.Sc. Melb., F.L.S.

DUCHESNE (R.C. women). Principal—Madame J. Percy-Dove, rsc.J., M.A., Dip.Ed. Syd.

For particulars of residence, *see below.*

GENERAL INFORMATION

The Univ. was established by an Act of the local legislature in 1909. The entire management and control are in the hands of a Senate of 20 members, of whom 10 are appointed by the Government and 10 are elected by the Council (consisting of all members and past members of the Senate, masters, graduates of the Univ. of 3 yrs.' standing, persons appointed by the Govt. as representatives of Commercial, Industrial, Scientific, etc., Assocns., benefactors, etc.). The annual grant from Govt. was £10,000 until 1917, when it was raised to £15,000. In 1922 it was raised to £20,000. In 1923 a further £2000 was voted by the Government, and the amount of £22,000 p.a. was contributed until 1931. In that year, in keeping with general reductions throughout Australia, the Govt. grant was reduced to £19,240 p.a. In 1935 the State Govt. voted a further sum of £1000 p.a. towards the Faculty of Dentistry estabd. in that year.

On the 1st July, 1936, the Govt. restored reductions in endowment to the extent of £4000 p.a. and at the same time granted an additional amount of £5000 p.a. for the establishment of Faculties of Medicine and Veterinary Science. Endowment at the rate of £1013 p.a. was granted as from Jan. 1, 1937, for use in connexion with the newly-established courses in Architecture, Education and Surveying. A further increase of £1663 p.a. from the 1st July 1938, brought the total amount of endowment now being received from the State Govt. up to £32,398 p.a. Under the will of the late Sir Samuel McCaughey the Univ. received an annual income of about £11,000 until the end of 1931. Owing to the lower rates of interest being earned by investments in Govt. loans, as a result of the conversion arranged in 1931 and reduction of other interest, the income from this source has fallen approximately £8500 p.a.

Up to 1931 the grounds and buildings facing the Brisbane River and adjoining the Botanical Gardens included, in addition to the main building and recreation grounds, 6 floors of three blocks of the Central Technical College buildings. The remainder of these blocks had to be taken over by the University in 1932, in order to accommodate the increased number of students. Owing to the rapid growth of the Central Technical College, as well as the University, the University is unable to obtain any more accommodation in the College buildings.

The present site belongs to the Central Technical Coll. and is used only temporarily for Univ. purposes. The permanent site of the Univ., consisting of 223 acres, is situated on the Brisbane River in the suburb of St. Lucia. It has a river frontage on three sides, and was the gift of Dr. and Miss Mayne, Brisbane. The erection on the St. Lucia site, by the State Govt., of buildings to house all departments except those concerned with the work of the later years in the Faculties of Medicine and Veterinary Science (which will be situated at Herston and Yeerongpilly respectively) began in March 1938. The estimated cost of these buildings is £500,000 and the work is well advanced.

LIBRARY. 44,930 vols. LABORATORIES: Anat., Agric., Biol., Biophysics, Chem., Applied Chem., Engin., Geol., Metallurgy and Assaying, Pathology and Bacteriology, Physics, Physiol., Psychol.

FACULTIES. Arts, Science, Engineering, Agriculture, Commerce, Dentistry, Law, Medicine, and Veterinary Science.

DEGREE COURSES. (Day Students): 3 yrs.—B.A., B.Com., B.Sc.; 4 yrs.—LL.B., B.Sc. Honours, B.Agr.Sc., B.Sc. (Applied) in Industrial Chem., B.D.Sc., B.E. in Civ., Mech. and Elec., Chem., or Mining Engin., B.Surv.; 5 yrs.—B.Vet.Sc.; 6 yrs.—M.B. and B.S.

HIGHER DEGREES. Open to Bachelors of 2 yrs.' standing: M.A., M.Com., LL.M., M.Sc., M.App.Sc., M.S.; of 3 yrs.' standing: M.Agr.Sc., M.E., M.D., D.V.Sc.; of 4 yrs.' standing: D.D.Sc.; of 5 yrs.' standing: D.Agr.Sc.; of 7 yrs.' standing; D.Econ., D.E., Litt.D. Open to Masters of 5 yrs.' standing: LL.D., D.Sc. These higher degrees are obtained by examination and/or submission of a thesis, but in some cases certain specified outside experience is required in addition.

OTHER COURSES. Diplomas: Mech. and Elect. Engin., 4 yrs. (may be followed in any approved Coll. or Instn.); Architecture, 4 yrs.; Commerce (on unit basis—approx. 5 years); Journalism, 2 yrs. for persons with 3 yrs.' practical experience; Physiotherapy (Massage), 3 yrs.; Education, 1 yr. post-graduate. Certificates: Education, 4 yrs.; Accountancy, 2 yrs.; Architecture, 2 yrs.

EVENING LECTURES AND EXTERNAL STUDENTS. In the courses which are available to them, evening and external students are permitted to spread their studies over a longer period than that prescribed for day students, and pay a proportionate amount of fees each year. By completing 5 yrs.' evening work at the Univ. or at approved institutions, exemption from the first 2 yrs. of the B.E. course may be obtained. Persons who, having matriculated, are unable to attend lectures at or in connexion with the Univ., may pursue by correspondence certain courses in the Faculties of Arts, Commerce and Law, under the guidance of the Director of External Studies. They may thereby, provided they pass the usual degree examns. (which may be held at local centres), qualify for degrees.

ADULT MATRICULATION. Candidates who have attained the age of 25 yrs. may be admitted to matricn. in all the Faculties upon passing a special examn.

FEES. Matricn., £1 : 1s.; admission *ad eundem statum*, £1 : 1s.; Lecture Fees for single subject per Term, £2 : 2s.; Composition Fees for complete Degree Course in the Facs. of Arts and Comm., 12 to 18 gns. p.a.; Law, £22 : 10s. p.a.; Science (Pure), Science (Applied), Engineering, and Veterinary Science, 20 to 22 gns. p.a.; Dentistry and Medicine, £40 p.a.; General Purposes Fee, 2 gns. to 4 gns. p.a.; Examn. Fees, 1 gn. to 2 gns.; Graduation Fees—Bachelor, 3 gns. to 10 gns.; Master, 5 gns.; Doctor, 10 to 20 gns.

SCHOLARSHIPS, ETC., FOR GRADUATES. 2 gold medals offered by Govt. for distinction at graduation; £100 p.a. for 2 yrs. for Original Research; £200 for 1 yr. for Engin. work; £250 p.a. for 2 yrs. for study outside Australasia; £500 p.a. for 3 yrs., of which 2 to be spent abroad in Engin. Research; £450 p.a. for 2 yrs. in Econ. Biol.; £250 p.a. for 2 yrs., every second yr. for study within Australasia, or £300 for study abroad. The last three were founded and are financed by the W. and E. Hall Trust. With the exception of these three, the scholarships are at present in abeyance.

RESIDENCE. Undergraduates are required to reside with their parents or approved friends or a tutor or in a recognized Residential Coll. or other instn. approved by the Senate. Fees in any of the Colleges, including residence, commons, and tuition, amount to approx. 60 gs. a year.

PUBLIC EXAMINATIONS are held by the Univ. annually in Nov. and Dec.: Junior (divided into 6 sections, viz.—General, Art, Commercial, Home Sc., Agric. and Industrial) and Senior. For matricn. the corresponding public examns. of the other Australian Univs. are treated as equivalent to these.

MUSIC EXAMINATIONS. Under a joint scheme, controlled by the Australian Music Examns. Board, which is representative of the Universities of Queensland, Melbourne, Tasmania, Adelaide, and Western Australia, and the State Conservatorium of Music of New South Wales, examns. in Music and Art of Speech are held throughout the Commonwealth twice a year, in May and September.

EXTRA-MURAL WORK. An Institute of Modern Languages has been established to provide for the study, under expert guidance, of foreign languages up to the Senior Public Examination, *i.e.* matriculation, standard. Classes were held during 1938 in Dutch, French, German, Hebrew, and Italian.

OTHER ACTIVITIES. (*a*) *Teaching*: At the beginning of 1938 a 3-yr. diploma course in Physiotherapy (Massage) was inaugurated in the Faculty of Medicine. Holders of this diploma will be entitled to registration as masseurs under the Nurses and Masseurs Registration Act of Queensland. During 1938 special

postgraduate courses in Anatomy and Physiology were arranged by the Fac. of Medicine for candidates preparing for the examns. for higher degrees in Surgery, and for the F.R.C.S. By arrangement with the College of Pharmacy (a separate institution) a special course in Physiology was conducted for pharmacists. (*b*) *Research*: Under a 5-yr. scheme sponsored and financed by the Commonwealth Govt. through the Commonwealth Committee for Scientific and Industrial Research, the several Australian Univs. are allotted a certain sum each year for the purpose of carrying out approved research work. The Univ. of Queensland's share of the grant was £4200 for each of the years 1937 and 1938. The following researches are in progress: native stocks for cultivated plants; the taxonomy, biology, ecology, and distribution of Australian Trypaneidæ (fruit flies); the collection and study of fossil insects from Mount Crosby, studies in vacuum evaporation; chemical investigations concerning fruit and wool; a survey of Queensland plant products; a survey of the productive capacity of Queensland; the geological structure of the Queensland portion of the Great Artesian Basin; study of soils in south-eastern Queensland; the geological structure of the far west of Queensland; seismic studies; coral research; movements of air masses as climate controls in Queensland; methods of glue testing; hydraulic flow of slurries; methods of measurement in surveying; and heat insulation testing. In addition three research scholarships have been granted — one in palæontology and two in industrial chemistry.

PUBLICATIONS. *Calendar* (Jan.), 3s. (postage 6d. extra); *Manual of Pub. Examns.*, 2s. (postage 3d. extra); *Music Manual*, free, postage 3d.

THE YEARS 1937, 1938

BENEFACTIONS. Queensland Branch of B.M.A., £210 for annual award of medal and £10 to the most successful student in the final examns. in Fac. of Medicine, in recognition of services rendered to medical profession by the late Dr. W. N. Robertson; Mrs. M. M. Weinholt, £52 : 10s. for prize to student with best academic record at end of 3rd yr. of medical course, in memory of the late John Weinholt.

NEW BUILDINGS. The new Medical School building at Herston will be ready for occupation about the end of 1938; building of new School of Dentistry and Dental Hospital in Turbot Street commenced Sept. 1937; new buildings on permanent site at St. Lucia commenced in March 1938, v. *supra*.

NEW DEPARTMENTS AND POSTS. Physiotherapy (Massage): Pt.-time Lectureships in Anatomy, Physiotherapy, and Chemistry and Physics; Demonstratorship and Asst. Demonstratorship in Massage. As part of development of new Facs. of Law, Med. and Vet. Sci., new posts were created: in Law, full-time Lectureship in place of Tutorship (from 1.1.39); in Med., Professorship in Obstetrics; pt.-time appts., 5 Clinical Lectureships, 4 Specialist Lectureships and 3 additional Tutorships in Med., 3 Clinical Lectureships, 11 Specialist Lectureships and 2 additional Tutorships in Surgery, 3 Specialist Lectureships, 4 Clinical Lectureships and 7 Tutorships in Obstetrics and 1 Specialist Lectureship, 2 Clinical Lectureships and 2 Tutorships in Gynæcology; in Vet. Sci., Lectureship in Clinical Med. and Surgery (from 1.2.39), and pt.-time Lectureship in Parasitology. In addition applications have been called for a full-time Librarian to take up duty on 1.4.39.

DEATHS. W. N. Robertson, C.M.G., C.B.E., Vice-Chancellor of the Univ.; T. Rimmer (Physics and Metereol.).

RETIREMENT. M. Scott Fletcher (Philosophy).

STUDENTS (1938): Full-time, 471; part-time, 933; total, 1404 (increase over 1937, 178).

DEGREES (1938). B.A., 67; M.A., 5; B.Sc., 18; M.Sc., 7; B.Sc. (Applied), 2; M.Sc. (Applied), 2; B.E., 10; M.E., 3; M.Agr.Sc., 1; B.Com., 9; B.D.Sc., 9; LL.B., 3; LL.M., 1; total, 137 (increase over 1937, 27).

UNIVERSITY OF SYDNEY

Founded 1850

VISITOR—H.E. THE GOVERNOR.

CHANCELLOR—Hon. Mr JUSTICE HALSE ROGERS, B.C.L. Ox., B.A.

DEPUTY-CHANCELLOR—A. E. MILLS, M.B., Ch.M.

VICE-CHANCELLOR—R. S. WALLACE, M.A. Aberd. and Ox., LL.D. Aberd.

REGISTRAR—W. A. SELLE, M.A.

ASSISTANT REGISTRAR—G. DALE, B.Ec.

LIBRARIAN—H. M. GREEN, B.A., LL.B.

TEACHING STAFF

Accountancy, v. Com.

Agriculture, v. also Vet. Sci.

Watt, R. D., M.A., B.Sc. Dean and Prof.
Waterhouse, W. L., D.Sc.Agr., D.I.C. Lond. (Plant Path. and Agr. Bot.). Reader.
Wright, G. (A. Chem.). Lectr.
Anderson, R. H., B.Sc.Agr. (Forestry). Lectr.
Savage, C. G., (Fruit Culture) Lectr.
Watson, I. A., B.Sc. Agr. Asst. Lectr.

Anatomy

Burkitt, A. N. St. G. H., M.B., B.Sc. Challis Prof.
Stump, C. W., D.Sc., M.D. Edin. (Histology and Embryology) Bosch Prof.
Shellshear, J. L., M.D., M.S. Research Professor.
Abbie, A. A., B.Sc., M.D., B.S. Lectr.
Miller, I. D., M.D., Ch.M. (Surg. A.) Lectr.
Garde, Mary L., B.Sc. (Histol.) Lectr.
Niesche, F. W., M.B., M.S. Melb. Lectr.

Demonstrators

Braddon, P. D., M.B., Ch.M.
Kinsella, V. J., M.B., Ch.M.
Lovell, S. H., M.B., M.S.
May, L., M.B., Ch.M.

Anthropology [Prof.

Elkin, A. P., M.A., Ph.D. Lond.
Hogbin, H. I. P., M.A., Ph.D. Lectr.
Wedgwood, Camilla H., M.A. Camb. Hon. Lectr.

Architecture

Wilkinson, L., F.R.I.B.A., F.I.A. Dean & Prof.
Hook, A. S., A.R.C.A. (Pract. and Constn.) Assoc. Prof.
Richardson, W. R. Lectr.
Thompson, E. L., B.Arch. Lectr.
Harris, R. K. Lectr.
Carter, N. (Freehand Dr.) Instr.
McConnel, K. H., B.Arch. Lectr.

Biochemistry

Priestley, H., B.Sc., M.D., Ch.M. McCaughey Prof.
Wardlaw, H. S. H., D.Sc. Lectr.
Anderson, Doris, B.Sc. Melb. Asst. Lectr.

Botany, v. also Agric.
Ashby, E., D.Sc. Lond. Prof.
McLuckie, J., M.A. Glas., D.Sc. Asst. Prof.
Brough, P., M.A., B.Sc.Agr. Glas., D.Sc. Lectr.

Chemistry
Fawsitt, C. E., D.Sc. Edin., Ph.D. Leip. Prof.
Lectrs.
Burrows, G. J., B.Sc.
Iredale, T., D.Sc. Lond., B.Sc.
Mellor, D. P., M.Sc.
Mills, J. E., M.Sc. Q'ld., Ph.D. Lond. Asst. Lectr.

Chem., Organic, Pure and Applied
Earl, J. C., D.Sc. Adel., Ph.D. St. And., F.I.C. Prof.
Lions, F., Ph.D. Manc., B.Sc. Lectr.
Trikojus, V. M., D.Phil. Ox., B.Sc. Lectr.
Hughes, G. K., B.Sc. Adel. Asst. Lectr.

Classics
Todd, F. A., B.A., Ph.D. Jena (Latin) Prof.
Powell, J. E., M.A. Camb. (Greek) Prof.
McDonald, A.H., M.A. N.Z. and Camb., Ph.D. Camb. (Ancient History) Reader.
Lectrs.
Powe, A. B., M.A. Q'ld (Latin).
Robinson, A. H., M.A. (Latin).
Shipp, G. P., B.A. (Latin).
Treweek, A. P., B.A. (Greek)

Commerce
Lectrs.
Kerr, I. W., B.Ec., F.I.C.A. (Acctcy.).
Gunn, J. A. L. (Business).
Ashburner, R., B.A., B.C.L. Ox. (Com. and Indust. Law).

Dentistry, v. *infra*

Economics
Mills, R. C., O.B.E., LL.M. Melb., D.Sc. (Econ.) Lond. Dean & Prof.
Bland, F. A., M.A., LL.B. (Pub. Admn.) Prof.
Walker, E. R., Ph.D. Camb. M.A., Lectr.
Watts, P. R., B.A., LL.B. (Mod. Pol. Institutions) Lectr.
Madgwick, R. B., D.Phil. Ox., M.Ec. (Econ. Hist.) Lectr.
Black, H. D., B.Ec. Lectr.
Crawford, J. G., B.Ec. (Rural Econ.) Lectr.
Butlin, S. J., B.A. Camb., B.Ec. Asst. Lectr.

Education
Mackie, A., M.A. Prof.
Cole, P. R., M.A., Ph.D. Col. (Hist. of Ed.) Lectr.
Roberts, T. T., M.A. Lectr.

Engineering, v. *infra*

English Language
Holme, E. R., O.B.E., M.A. McCaughey Prof.

English Literature
MacCallum, Sir Mungo W., K.C.M.G., M.A., LL.D. Glas., D.Litt. Ox. Hon. Prof.
Waldock, A. J. A., M.A. Prof.
Howarth, R. G., B.A., B.Litt. Ox. Lectr.
Mitchell, A. G., M.A. Asst. Lectr.
Maxwell, I., B.A. Melb., B.Litt. Ox. Asst. Lectr.

Forestry, v. Agric.

French
Nicholson, G. G., C.B.E., M.A., B.C.L. Ox. McCaughey Prof.
Marks, Gladys, B.A. Lectr.
Gschaedler, A. Lectr.
Henning, I., D. de l'U. Paris, B.A. Asst. Lectr.

Geography
Holmes, J. McD., B.Sc. Glas. McCaughey Assoc. Prof.
Andrews, J., B.A., Ph.D. Camb. Asst. Lectr.
Maze, W. H., M.Sc. Asst. Lectr.

Geology and Phys. Geog.

Cotton, L. A., M.A., D.Sc. David Prof. & Hovell Lectr.
Browne, W. R., D.Sc. (on leave) Asst. Prof.
Waterhouse, L. L., B.E. Lectr.
Osborne, G. D., D.Sc. Lectr.
Brown, Ida A., D.Sc. Lectr.
Quodling, Florrie M., B.Sc. Actg. Asst. Lectr.
Joplin, Germaine A., B.Sc., Ph.D. Camb. Actg. Asst. Lectr.
Breckenridge, Marion, B.Sc. Actg. Curator.

German and Comparative Lit.

Waterhouse, E. G., M.A. McCaughey Prof.
Neumann, G., Ph.D. Kiel Lectr.
Farrell, R. B., M.A., Ph.D. Berlin Asst. Lectr.

Histology and Embryol., v. Anat.

History

Roberts, S. H., M.A., D.Litt. Melb., D.Sc. (Econ.) Lond. Challis Prof.
Henderson, G. C., M.A. Ox. Research Prof.
Hentze, Margot, M.A., Ph.D. Lond. Lectr.
Jacobs, Marjorie G., M.A. Asst. Lectr.

Italian

Shaw, R. M., M.A. Lectr.

Japanese Lang. and Lit.

Sadler, A. L., M.A. Ox. Prof.

Law, v. *infra*

Mathematics, Pure and Applied

Room, T. G., M.A. Camb. Prof.
Wellish, E. M., B.A. Camb., M.A. (Appl. M.) Assoc. Prof.
Lyons, R. J., M.A. Camb., B.A. Lectr.
Thorne, H. H., M.A. Camb., B.Sc. Lectr.
Smith-White, W. B., B.Sc. Asst. Lectr.

Medicine, v. *infra*

Mining, v. Engineering

Philosophy [Challis Prof.

Anderson, J., M.A. Glas.
Partridge, P. H., M.A. Asst. Lectr.
Passmore, J. A., B.A. Asst. Lectr.

Philosophy, Political and Moral

Stout, A. K., M.A. Ox. Prof.

Physics

Vonwiller, O. U., B.Sc. Prof.
Bailey, V. A., M.A., D.Phil. Ox. (Experimental P.) Prof.
Briggs, G. H., Ph.D. Camb., D.Sc. Asst. Prof.
Love, W. H., B.Sc., Ph.D. Lectr.

Physiology [Prof.

Davies, H. W., M.B., B.S. Adel.
Cotton, F. S., D.Sc. Lectr.
McQuiggin, H. G., B.Sc., M.B., Ch.M. Lectr.

Psychology

Lovell, H. T., M.A., Ph.D. Jena Dean and McCaughey Prof.
Martin, A. H., M.A., Ph.D. Col. Lectr.
Gibb, C. A., B.A. Asst. Lectr.

Statistics

Sawkins, D. T., B.A. Camb., M.A. Reader.

Veterinary Science

Stewart, J. D., B.V.Sc., F.R.C.V.S. Dean & Prof.
Carne, H. R., D.V.Sc. (V. Path. and Bact.) Lectr.
Gunn, R. M. C., B.Sc.Agr. Birm. & Syd., D.V.Sc., M.R.C.V.S. (V. Surg. & Anat.) Lectr.
Henry, M., D.S.O., B.V.Sc., M.R.C.V.S. (Vet. Juris.) Lectr.
Gordon, H. M., B.V.Sc. (V. Parasitol.). Lectr.

Creswick-Jackson, N. E., B.V.Sc. (V. Mat. Med. and Pharm.) Lectr.
Gregory, T S., B.V.Sc. Melb. (Vet. Bact.) Lectr.
Drabble, J., B.V.Sc. (Meat Inspection) Lectr.
Whitehouse, F., B.V.Sc. (Zootechny.) Lectr.
Whittet, J. M. (Pastoral Bot.) Lectr.
Webb, R. M., B.V.Sc. (V. Anat.) Asst. Lectr.

Zoology

Dakin, W. J., D.Sc. Liv., F.L.S. Dean and Challis Prof.
Briggs, E. A., D.Sc. Asst. Prof.
Colefax, A. N., B.Sc. Lectr.
Woodhill, A. R., B.Sc.Agr. (Entomol.) McCaughey Lectr.
Thomas, I. M., M.Sc. Wales Lectr.

Engineering

Civil [Challis Prof.

Miller, W. A., B.Sc. Glas., M.E.

Lecturers

Vogan, H. J., B.E.
Leech, T. D. J., B.Sc., B.E.
Bickford, C. R. (Harbour and Docks).
Larkins, H. M., B.E. (Irrigation).
Nicol, T. B., B.E. (Water Supply and Sewerage).
Vicars, J., M.E. (Road Pavement).
Hodgson, C. A., M.A. Camb. (Econ. of Rly. Transport).
Aston, R. L., M.Sc., Ph.D. Camb., B.Sc., B.E. (Surveying, etc.).

Electrical

Madsen, J. P. V., B.E., D.Sc. Adel. Russell Prof.
Sharp, L. H., B.Sc., B.E. Lectr.
Campbell, E. F., B.E. Lectr.
Martyn, D. F., Ph.D. (Atmospheric Physics.) Lectr.

Mechanical

Barraclough, Sir H. E., K.B.E., V.D., M.M.E. Corn., B.E., M.I.M.E., M.I.C.E. Dean and Russell Prof.
Sutherland, G. F., A.R.C.S. Asst. Prof.

Lecturers

Swain, H. J., B.A., B.Sc., B.E. (Internal Combust. Engines).
Gibson, W. H. H., B.Sc., M.E.
Hart, K. R. M., B.Sc., M.E.

Mining [Russell Lectr.

Clayton, C. H. J., B.E.

Technology and Metallurgy

Eastaugh, F. A., A.R.S.M., F.I.C. Prof.
Hammond, H. R., B.E. Asst. Lectr.

Law, v. also Com.

Peden, The Hon. Sir John B., K.C.M.G., K.C., B.A., LL.B., M.L.C. Dean and Challis Prof.

Admiralty Law

Wright, G. L., LL.B. Lectr.

Bankruptcy and Probate

Sheldon, W. S., B.A., LL.B. Challis Lectr.

Company Law

Sheldon, W. S., B.A., LL.B. Lectr.

Contracts, Merc. Law, Torts

Sugerman, B., LL.B. Challis Lectr.

Conveyancing

Watts, P. R., B.A., LL.B. Challis Reader.

Criminal Law

Treatt, V. H., B.A., B.C.L. Ox. Lectr.

Divorce

Mackenzie, W. K. S., D.S.O., B.A. Challis Lectr.

Equity Law
Windeyer, W. J. V., B.A., LL.B. Challis Lectr.

Industrial Law
O'Mara, T., LL.B. Hyman Lectr.

International Law & Jurispr.
Charteris, A. H., M.A., LL.B. Edin. Challis Prof.

Legal Ethics [Lectr.
Windeyer, W. J. V., B.A., LL.B.

Legal History
Currey, C. H., M.A., LL.D. Lectr.

Legal Interpretation
Taylor, A. R., LL.B. Challis Lectr.

Lunacy Law
Barraclough, F. E., M.A., LL.B. Lectr.

Procedure, Evidence, & Pleading
McMinn, W., B.A., LL.B. Challis Lectr.

Roman Law [Challis Lectr.
Flattery, T. P., M.A., LL.B.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Hotten, W. I. T., M.B., Ch.M. Lectr. and Tutor.

Tutors
Hunter, H., M.B., Ch.M.
Holloway, E. S., M.B., Ch.M.
Allen, R. A. M., M.B., Ch.M.
Holt, W. G., M.B., Ch.M.
Pearce, H. G., M.B.

Bacteriology
Ward, H. K., M.B. Bosch Prof.
Goldsworthy, N. E., M.B., Ch.M., Ph.D. Lectr.

Diseases of Ear, Nose, Throat
Godsall, R. S., M.B., Ch.M., F.R.C.S. Lectr.

Diseases of the Skin
Molesworth, E. H., M.D., Ch.M. Lectr.

Gynæcology
Schlink, H. H., M.B., Ch.M. Lectr.

Infectious Diseases
Symington, N. J., M.B., Ch.M.

Medical Jurispr. and Ethics
Palmer, A., M.B., Ch.M. Lectr.

Medicine
Lambie, C. G., M.C., M.D. Edin., F.R.C.P. Bosch Prof.
Trikojus, V. M., D.Phil. Ox., B.Sc. (Org. Chem.) Lectr.

Medicine, Clinical

Lecturers
McDonald, C. G., M.B., Ch.M.
Walker, A. S., M.D., Ch.M.
Ritchie, H. J., M.B., Ch.M.
Holmes à Court, A. W., M.D., Ch.M.
Stephen, E. H. M., M.B., Ch.M.
Diethelm, O. A., M.B., Ch.M.

Med. Tutors
Morrow, A. W., M.B., Ch.M.
Maddox, J. K., M.D., Ch.M.
Susman, E. L., M.B., Ch.M.
Bye, W. A., M.B., Ch.M.
Steel, R. S., M.B., Ch.M.
Stokes, E. H., M.B., Ch.M.
Stobo, A. J. H., M.B., Ch.M.
Noad, K. B., M.B., Ch.M.
Taylor, R. J., M.B., Ch.M.
Sherwood, J., M.B., Ch.M.

Obstetrics
Windeyer, J. C., M.D., Ch.M., M.R.C.S., L.R.C.P. Prof.
D'Arcy, Constance E., D.B.E., M.B., Ch.M. Lectr.
Donovan, H. C., M.B. Lectr.
Harper, Margaret H., M.B., Ch.M. (Mothercraft) Lectr.
Ridler, H. A., M.B., Ch.M. Tutor.
Bowman, R. M., M.B., Ch.M. Tutor.
Gibson, A. J., M.B., Ch.M. Demr.
Lowe, G. B., M.B., Ch.M. Demr.

Ophthalmology

Waddy, R. G., M.B., Ch.M. Lectr.

Pathology

Inglis, W. K., M.D., Ch.M. Prof.
Canny, A. J., M.B., Ch.M. Lectr.
Joseph, M. R., M.B., B.S. Jr. Lectr
Walker, A. S., M.D., Ch.M. Demr.

Pharmacy

Finnemore, H., B.Sc. Lond., F.I.C. Reader.
Large, Dorothy K., B.Sc. Asst. Lectr.

Preventive Medicine

Sutton, H., O.B.E., M.D., Ch.B. Melb. Prof.

Psychiatry

Dawson, W. S., M.A., M.D., B.Ch. Prof.

Surgery

Dew, H. R., M.B., B.S. Melb., F.R.C.S. Dean and Bosch Prof.
Phillips, G. E., M.Sc., M.B., M.S. Lectr.

Surgery, Clinical

Lecturers

McKelvey, Sir John L., M.B., Ch.M.
Storey, J. C., M.B., Ch.M.
Bell, G., M.B., Ch.M.
Aspinall, A., M.B., Ch.M.
Hipsley, P. L., M.D., Ch.M.
Coppleson, V. M., M.B., Ch.M.

Tutors

McCredie, D. W., M.B., Ch.M.
Niesche, F. W., M.B., M.S. Melb.
Flynn, M. R., M.D., Ch.M.
MacMahon, J. S., M.B., Ch.M.
Wyndham, N. R., M.B., M.S.
Buchanan, A. L., M.B., Ch.M.
Winston, C. E., M.B., Ch.M.
Susman, M. P., M.B., Ch.M.
Perry, W., M.B., Ch.M.
Miller, I. D., M.B.

Dentistry

Arnott, A. J., D.D.Sc. Dean and McCaughey Prof.
Marshall, F., C.M.G., D.D.S. Penn. (Prosthetic D.) Lectr.
Gates, E. C., D.D.S. North-western (Orthodontia) Lectr.
Ash, P. A., D.D.S. Penn. (Clin. D.) Lectr.
Harris, R., B.D.S. (Oper. D.) Lectr.
Wallace, E. S., D.D.Sc. Melb. (Dental Mat. Med.) Lectr.
Kirkpatrick, R. M., D.D.Sc. Lectr.
Grainger, W. A., B.D.S. (Ceramics) Lectr.
Palmer, A. B. A. Asst. Lectr. and Demr.

University Extension

Madgwick, R. B., D.Phil. Ox., M.Ec. Secy. to the Board.

Tutorial Classes

Duncan, W. G. K., M.A., Ph.D. Lond. Director.
Wilson, J. L. J., B.A. N.Z. Asst. Director.
1 full-time tutor and 36 tutorial class lectrs.

COLLEGES WITHIN THE UNIVERSITY

St. Paul's College (Anglican). Warden—Rev. A. H. Garnsey, M.A. Sub-Warden—P. C. Greenland, M.A. (Adel.). 7 other Lectrs.

St. John's College (R.C.). Rector—Rev. J. C. Thompson, C.M., M.A., Dip.Ed. Ox. Vice-Rector—Rev. E. N. Archer, C.M., B.A. 9 other Lectrs.

St. Andrew's College (Presb.). Principal—Rev. W. Cumming Thom

B.D., Ph.D., M.A. Vice-Principal—R. L. G. Brereton, B.A., LL.B. 14 other Profs. and Lectrs.

Wesley College (Methodist). Master—Rev. L. E. Bennett, M.A. Melb., B.D. Lond. Vice-Master—W. E. Fisher, M.D., Ch.M. 6 Lectrs.

The Women's College (undenominational). Principal—Camilla H. Wedgwood, M.A. Camb. 7 Lectrs.

Sancta Sophia College (R.C. Women). Principal—Mother Helen Boydell. Vice-Principal—Mother Mary Arnold, M.A. 9 Lectrs.

COLLEGE OUTSIDE THE METROPOLITAN AREA

New England University College, Armidale, N.S.W. Established by the University of Sydney, 1938. Warden—Edgar Harold Booth, M.C., D.Sc., F.Inst.P. 11 other Lectrs.

GENERAL INFORMATION

Founded by Act of the N.S.W. Legislature in 1850, the Univ. was granted a Royal Charter in 1858. Its development has been largely due to private benefactions: notably those of J. H. Challis—£250,000—in 1880; T. Fisher—£30,000 for Library—in 1885; P. N. Russell—£100,000 for School of Engineering, etc.—in 1896 and 1904; W. O. Watt, £78,354, 1925–1928; and G. H. Bosch, £249,000, 1927–1928. Under the will of Sir S. McCaughey it receives an annual income which amounted in 1937 to £17,596. In 1912 the Statutory endowment was raised from £10,000 to £20,000, with provision for further automatic increases, and at the same time the constitution of the governing body, called the Senate, was altered so as to include 6 nominees of the Govr. and Parliament (one-fourth of the whole number). In 1917–18 the Statutory endowment was further increased to £32,000, including £2000 for the new School of Archit. In 1919 the State provided £50,000 a year for 6 years for additional buildings. The Faculties were, in that year, increased from 4 to 10. From Jan. 1938 the statutory endowment has been fixed at £100,000 p.a., being an increase of £32,000 p.a. on the previous total of govt. grants. The grounds, which include the sites of the Colleges grouped round an oval, cover 140 acres.

Provision was made by Act of Parliament soon after the foundation of the Univ. for endowing such Colleges as might be established within it, to the extent of £20,000 in aid of building and £500 p.a. towards the Principal's salary.

Under an Act passed at the end of 1937 the Senate is empowered to establish and maintain Colleges outside the Sydney metropolitan area. These will be under the control of the Senate through an advisory committee for each College acting under Bylaws made by the Senate. Students will be admitted to degrees of the Univ. of Sydney. The first College has been established at Armidale, 360 miles distant from Sydney (v. *supra*).

The Fisher Library, endowment £30,000, 225,000 vols., receives about 1800 serial publications. Museums: Nicholson collection of Egyp., Greek, Roman and Medieval Antiq. (4000 specimens); Macleay Nat. Hist.; Anat., Geol., and Zool.; Obstetric, Materia Medica. Laboratories: Schools of Med., Engin. and Archit. (atelier), Bot., Chem. (including Metall. and Research), Geol. (with rock analysis Research), Phys., Zool. There is a Marine Biological Station at the entrance to Port Jackson with a small auxiliary yacht for biological and oceanographical research under Prof. Dakin. Hospitals: Royal Prince Alfred, erected on the Univ. grounds as a general hospl. and school,

518 beds; Prince Henry, available for postgraduate research; Gladesville Mental, recognized by Camb. for clinical work for Dip. Psych. Med.

FACULTIES. (1) Arts, (2) Law, (3) Medicine, (4) Science, (5) Engineering, (6) Dentistry, (7) Vet. Science, (8) Agriculture, (9) Economics, (10) Architecture.

Deans—(1) Prof. H. T. Lovell (Psychol.), (2) Prof. The Hon. Sir John B. Peden (Law), (3) Prof. H. R. Dew (Surg.), (4) Prof. W. J. Dakin (Zool.), (5) Prof. Sir H. E. Barraclough (Mech. Eng.), (6) Prof. A. J. Arnott, (7) Prof. J. D. Stewart, (8) Prof. R. D. Watt, (9) Prof. R. C. Mills, (10) Prof. L. Wilkinson.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE. The School acts as the teaching and examn. centre for the Univ.'s Diplomas of Public Health, Trop. Medicine, and Trop. Hygiene. In addition a course in Preventive Med. is given, and lectures in School Hygiene for the Diploma in Education. Short courses are also given in Architectural Hygiene, Social Hygiene, and Trop. Hygiene. The School is financed by the Commonwealth Health Dept., but all teaching is directly controlled by the Univ. and the Fac. of Med., together with all matters concerning diplomas, syllabuses, fees, examns., etc. An Advisory Council, under the Chairmanship of the Director-General of Public Health, Commonwealth of Australia, deals with all matters of policy. The staff consists of a Director (also Prof. of Preventive Med.), 4 Med. Officers (incl. 2 Deputy Directors), and a number of Visiting Lectrs.; 1 Entomologist, 4 Tech. Assts., and 3 Clerks. The D.P.H. requirements are those of the General Medical Council of Gt. Britain, the D.T.M. corresponds to similar courses at the London School of Hygiene and the Liverpool School of Tropical Medicine. The main divisions of the School are those of Chem. and Physics, Bacteriol. and Pathol., Parasitol., Entomol., Indust. Hygiene. An excellent Library, especially in Trop. Med. and Hygiene, is available. Adequate accommodation is available for research students.

DEGREE COURSES. 3 yrs.—B.A., B.Sc.; 4 yrs.—Hons. B.A., Hons. B.Sc., B.Sc. in Agric., B.Ec., LL.B., B.D.S., B.E. (in Civil Engineering, Mechanical and Electrical Engineering, Mining and Metallurgy, or Engineering Technology); 5 yrs.—B.V.Sc., B.Arch.; 6 yrs.—M.B., B.S.; 2 yrs.' advanced study or research (after full 3 yrs.' course at another Univ.)—B.A. or B.Sc. The LL.B. qualifies conditionally for admission to the bar. Law students usually take the B.A. first, selecting Law subjects in 3rd yr., and complete combined course in 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk. HIGHER DEGREES. Obtainable by bachelors of 2 yrs.' standing—M.A., M.Ec., LL.D., M.D., M.S., M.Sc., M.D.S., M.Sc.Agr.; 3 yrs.—D.Sc., M.E.; 5 yrs.—D.Sc. Eng.; D.D.Sc.; D.V.Sc., D.Sc.Agr. DIPLOMAS. Educn. (for graduates in Arts or Sc.), 1 yr.'s course; Com., 3 yrs.; D.P.H., 1 yr.; D.T.M., 3 mths.; D.T.H., 3 mths.; Psychological Medicine, 2 terms; Radiology, 1 yr.; Anthropology, 1 yr.; Public Administration, 3 yrs.; Pharmaceutical Science, 3 yrs.

RECOGNITION OF STUDIES ELSEWHERE. A considerable portion (in Med. 3 yrs.) of the curriculum for a Degree must be taken in Sydney. Holders of the Honours Diploma of the *Hawkesbury Agricultural College* or any college of similar standing who have passed the Intermediate Certificate Examn. in matriculation subjects may be admitted as matriculated students in Vet. Sc. or Agriculture.

FEES. Matricn., £3; Degree in Arts, Econ., Sci., or Agric., £3; Vet. Sci., £5; M.D. and M.S., £20; other Degrees, £10; Degree Courses in Arts, 3 yrs., £75; Econ., 4 yrs., £96; Law, £90 (Arts subjects additional); Med., £234 (excluding

Hospl. Attendance, 21 gs., and practical Midwifery, £18); Dent., 4 yrs., £150 (excluding Dent. Hospl. £15 p.a.); Science, 3 yrs., £99; Engin., 4 yrs., £154 (Mining and Metall., £168); Agric., 4 yrs., £118 : 10s.; Vet. Sci., 5 yrs., £145; Archit., 5 yrs., £182.

SCHOLARSHIPS, ETC., FOR GRADUATES. Demrs. are appointed annually in each Scientific Dept. with the obligation to carry out research under the direction of the Prof.; 6 postgrad. Scholarships of from £150 to £200 each are awarded annually for scientific study and research in the Univ.; 4 Macleay Fellowships of £400 p.a. each are tenable by B.Sc.'s; 4 others of £300 p.a., and 2 Schol'ps. of £250 p.a., tenable for 2 yrs., are awarded annually for further study and research at Syd. or abroad.

RESIDENCE. The four denominational Colls. (v. *supra*) provide accommodation for about 260 students; the Women's Coll. for about 70, and Sancta Sophia College for 50 R.C. women students.

UNIVERSITY EXTENSION LECTURES are given in courses of from 3 upwards in Sydney and numerous local centres. *Tutorial Classes* are provided, as prescribed by the Act of 1912, under the superintendence of a Joint Committee of the Univ. and Workers' Educl. Assocn. of N.S.W. In 1937 the Govt. grant for this purpose was £4126; 57 classes were at work, including 1617 effective students.

PUBLICATIONS. *Calendar* pubd. in August, 4s., with annual report and list of publicns. of Univ. Staff; Reprints of Scientific Papers by members of the Staff; *Hermes*, an undergrads.' mag., free (3 issues p.a.); The *Union Recorder* (weekly during Term).

THE YEARS 1937, 1938

BENEFACTIONS. The late Dame Eadith Walker, £2500 for general purposes; the sons and daughters of the late George Judah Cohen, £1000 to found the George Judah Cohen Lectures; the late Alfred Sendall, £1000 to found a bursary.

NEW DEVELOPMENTS. By Act of Parliament (passed at end of 1937), the Univ. of Sydney is authorized to establish and maintain Colleges outside the Sydney metropolitan area. The first coll. to be established is New England University College, situated at Armidale, 360 miles distant from Sydney.

The statutory endowment of the Univ. has been fixed at £100,000 p.a., as from 1st Jan., 1938, being an increase of £32,000 p.a. on previous total of statutory endowment and Govt. grants for special purposes.

The Prince Henry Hospital has been made available by Govt. for purposes of postgraduate research. Medical and surgical units have been established, and the formation of a pathol. unit is contemplated.

NEW POSTS. A new Chair of Political and Moral Philos. has been created. The Assoc. Profs. of German and Engin. Tech. have been promoted to full professorial rank. The Assoc. Prof. of Physiol. has been appointed to a newly created Chair of Biochemistry. Readerships in Agriculture, Pharmacy, and Statistics have been established, and new Lectureships have been created in the Departments of Greek, German, and Engineering Technology.

VISITS OF MEMBERS OF STAFF TO OTHER UNIVERSITIES. The following were granted leave of absence during 1938 to visit Univs. in Great Britain and the U.S.A.: Profs. J. Anderson (Philosophy), A. N. Burkitt (Anatomy), C. G. Lambie (Medicine), A. J. A. Waldock (English Literature), R. D. Watt (Agri-

culture), Miss Gladys Marks (French), Messrs. H. Finnemore (Pharmacy), D. P. Mellor (Chemistry).

RETIREMENTS AND RESIGNATIONS. J. G. Churchward (Agriculture); Alma Culey (Geology); J. de Vial (French); Isabel Fidler (Tutor to Women Students); A. D. Gillies (Medicine); Ellen M. Hindmarsh (Physiology); W. J. Leslie (Engineering); H. W. May (Law); R. A. Money (Medicine); J. Shepherd (History); J. L. Still (Physiology); L. J. Taylor (Business Principles and Practice); F. H. H. Wilson (Medicine).

DEATH. F. G. Hardwick (Dentistry).

STUDENTS (1938). Matriculated, 3200; postgraduate, 67; non-matriculated, 435; less duplications, 30.

DEGREES. B.A., 136; M.A., 15; B.Ec., 38; M.Ec., 1; LL.B., 36; B.Sc., 73; M.Sc., 8; D.Sc., 2; B.E., 35; M.E., 1; B.Arch., 4; B.Sc.Agr., 11; D.Sc.Agr., 1; B.V.Sc., 26; M.B., 84; M.D., 2; B.S., 81; M.S., 1; Ch.M., 2; B.D.S., 27.

UNIVERSITY OF TASMANIA, HOBART

Founded 1890

VISITOR—H. E. Sir ERNEST CLARK, K.C.B., C.B.E., Governor of Tasmania.

CHANCELLOR—W. J. T. STOPS, LL.B.

VICE-CHANCELLOR—Prof. E. MORRIS MILLER, M.A., Litt.D. Melb.

REGISTRAR—A. S. PRESHAW, B.A. W. Aust. (on leave)

LIBRARIAN—Prof. E. MORRIS MILLER, M.A., Litt.D. Melb.

TEACHING STAFF

Accountancy and Auditing

Hewer, A. R., F.I.C.A. Lectr.

Biology

Hickman, V. V., B.A., D.Sc. Lectr.
Gordon, H. D., B.Sc., Ph.D. Edin. (Botany) Lectr.

Chemistry

Kurth, E. E., D.Sc. Lectr.
Israel, G. C., M.Sc. N.Z., A.I.C. Lectr.

Classics

Dunbabin, R. L., M.A. Ox. Prof.

Economics

..... Prof.
Dallas, K. M., B.Com. Lectr.
Anderson, D. L., B.Com. Asst. Lectr.

Education

Hills, W., B.A. Lectr.
Parker, H. T., M.A. Lectr.
Duncombe, C., M.B., B.S. Melb., F.R.C.S. Edin. Lectr.

Engineering

Burn, A., B.E. Syd., M.Sc. Prof.
Tuck, H. P., B.Sc., B.E. Adel. (Elec. E.) Lectr.
Schneider, W. H., B.E. Adel., B.Com. (Mech. E.) Lectr.
Field, J., A.M.I.E. Aust. (Drawing and Design) Lectr.

English Lang. and Literature

Taylor, A. B., M.A. Ox. Prof.
McShane, C. C., B.A. Lectr.

History

[Prof.
King, C. S., M.C., M.A. Ox., B.A.

Law

Shatwell, K. O., B.A., B.C.L., Ox. Prof.
Beedham, R. N. K., LL.B. Lectr.
Osborne, R. G., B.A., LL.B. Lectr.
Wright, R. C., B.A., LL.B. Lectr.
Burbury, S. C., LL.B. Lectr.

Mathematics

[Prof.
Pitman, E. J. G., M.A., B.Sc. Melb.
Jaeger, J. C., B.A. Syd. and Camb., B.Sc. Syd. Lectr.

Modern Languages

Triebel, L. A., M.A. Lond. Lectr.
Macfarlane, C. W., B.A. Lectr.

Psychology and Philosophy

Miller, E. Morris, M.A., Litt.D. Melb. Prof.

Physics

McAulay, A. L., M.A. Camb., Ph.D. Manc., B.Sc., F.Inst.P. Prof.
Cruickshank, F. D., B.Sc. Lectr.

Tutorial Classes

Dallas, K. M., B.Com. Director.

AFFILIATED RESIDENTIAL COLLEGE

CHRIST COLLEGE. Warden—Rev. Canon W. R. Barrett, M.A., Th.L. For University and Theological students only. Accommodation, 22.

AFFILIATED SCHOOLS

MT. LYELL SCHOOL OF MINES AND INDUSTRIES.

HOBART TECHNICAL COLLEGE.

LAUNCESTON TECHNICAL COLLEGE.

GENERAL INFORMATION

Founded in 1890 under an Act of the Tasmanian Legislature, the Univ. was, in 1915, granted a Royal Charter. To the original Faculties—Arts, Science, and Law—Commerce was added in 1919 and Engineering in 1922. Music (included under the Faculty of Arts) was first taught in 1935. The Govt. grant for 1937–38 was £14,525, exclusive of £740 for Tutorial Classes. Chemistry and some Engineering subjects are taught under a joint arrangement between the Univ. and the Hobart Techn. Coll.; the Joint Board of Management received a separate grant of £5663 for these depts.

A grant of £2400 p.a. for five years was made by the Commonwealth Government from July 1, 1936, for the purpose of research work and the training of research students.

ADMISSION OF PERSONS OF MATURE AGE. Persons not below 25 yrs. of age who satisfy the Professorial Board that they possess sufficient qualifications for the courses they propose to pursue may be exempted from the ordinary requirements for matricn.

LIBRARY, 37,515 vols. and 8301 pamphlets. LABORATORIES: Chem., Phys., Biol.; Testing plant in Engin. Dept. Facilities for investigation in Elec. Engin. OBSERVATORY, 8 reflector telescope.

DEGREE COURSES: 3 yrs., B.A., B.Sc., LL.B. (after 1 yr. of Arts course), B.Mus.; 4 yrs., B.Com., B.Eng. HIGHER DEGREES. Open to Bachelors of 2 yrs.' standing, M.A., M.Sc., LL.M., M.Com.; 3 yrs., M.E., D.Sc.; 7 yrs., D.Litt.; to Masters of 3 yrs.' standing, LL.D. DIPLOMAS: Commerce, 3 yrs.' course; Public Administration, 3 yrs.' course. DIPLOMAS of the Affiliated Schools: Metal Mining; Metall., Chem., and Assaying.

FEES. Matricn., £1 : 1s.; *ad eundem statum*, £1; Admission to Degrees, Bachelors, £3 : 3s. Including examn.: Masters, £10 : 10s.; Doctors, £15 : 15s. Degree Courses (full-time) in Arts (3 yrs.), about £47; Science (3 yrs.), £52 to £63; Engin. (4 yrs.), £97; Law (4 yrs.), £71; Commerce (4 yrs.), £55 : 10s. to £60; Music (3 yrs.), £41. Courses spread over longer periods than the minima would cost more.

UNIVERSITY EXTENSION. Tutorial classes.

PUBLIC EXAMINATIONS. Leaving; Music (held in conjunction with other Australian Univs.).

PUBLICATIONS. *Calendar* (March), 2s.; *Pub. Examn. Manual* (April), 2s.; *Degree Examn. Papers* (April), 1s.; *Details Degree Examns.* (June), 6d.; *Details Public Examns.* (Sept.), 6d.; Students' Paper, *Togatus* (issued fortnightly).

THE YEARS 1937, 1938

CHANGES IN REGULATIONS. Degree of D.Litt. instituted. Leaving Examn. passes now divided into higher and lower standard ; 3 passes at higher standard required for matricn., and higher standard, as a rule, required before subject may be continued at Univ. Regulations now prevent degree students from counting subjects passed after one academic yr. (usually four subjects), unless matriculated. After March 1939 no Intermediate Examination will be held by Univ.

VISIT OF MEMBER OF STAFF. Prof. C. S. King (History), on leave during 1938, visiting Europe.

RESIGNATION. Mr. P. J. Macleod (Chemistry).

RETIREMENT. Dr. W. Arundel Orchard (Music).

HONORARY DEGREES. Members of the New Education Fellowship Conference : *D.Litt.*—Pierre Bovet, D. ès L. Geneva. *Ph.D.*—Paul Leo Dengler, Ph.D. Vienna ; Harold Rugg, B.S., Ped.D. Dartmouth Coll., C.E. Thayer School, Ph.D. Illinois.

STUDENTS' AFFAIRS. Joint Advisory Ctee. formed, to which both students and members of Council appointed. President of Tasmania Univ. Union now attends meetings of Univ. Council.

STUDENTS (1937). Full-time : 49. Part-time : 221, including 7 graduates. Exempted from attendance : 122.

DEGREES AND DIPLOMAS. B.A., 14 ; M.A., 2 ; LL.B., 3 ; B.Sc., 9 ; D.Sc., 1 ; B.E., 2 ; B.Com., 8.

UNIVERSITY OF WESTERN AUSTRALIA, PERTH

Founded 1913

VISITOR—H.E. THE LIEUTENANT-GOVERNOR.

CHANCELLOR—J. S. BATTYE, B.A., Litt.D., LL.B.

PRO-CHANCELLOR—W. SOMERVILLE.

VICE-CHANCELLOR—Emeritus Professor H. E. WHITFELD, C.B.E., B.A., B.E., M.I.E.A.

WARDEN OF CONVOCATION—Rev. C. E. STORRS, M.A. Camb.

CLERK OF SENATE AND ACCOUNTANT—R. E. PARKER, L.I.C.A., A.A.I.S.

ACADEMIC SECRETARY AND STUDENT ADVISER—T. H. ROBERTS, B.A.

LIBRARIAN—M. EVALYN WOOD, B.A.

TEACHING STAFF

Agriculture

Nichols, J. E., M.Sc. Durh., Ph.D. Edin.
Dean, Fac. of Agric., Prof.
Stewart, A. M., B.Sc.Agric. Lectr.

Pt.-time Lecturers

Baron-Hay, G. K., B.Sc.(Dairying).
Wickens, G. W. (Hortic.).
Gardner, C. A. (A. Bot.).
Teakle, L. J. H., Ph.D. Calif., B.Sc.Agr. (Agric. Chem.).
Gov. Officer (Plant Path.)

Biology

Nicholls, G. E., D.Sc. Lond., A.R.C.Sc. Prof.
Builder, Edith, B.A., B.Sc. Asst. Lectr.
Mulcahy, C. M., B.A. Asst.

Botany

Armstrong, J. I., Ph.D., D.Sc. Belf. Lectr. in Charge.
Baird, Alison M., B.Sc. Asst. Lectr.
Burbidge, Nancy, B.Sc. Demr.

Chemistry

Baylis, N. S., B.A. Ox., B.Sc. Melb., Ph.D. Calif. Prof.
Tattersall, G., M.Sc. Manc., F.I.C. (Org. C.) Assoc. Prof.
Elliott, G. A., Ph.D. Lond. Lectr.
Samuel, L. W., Ph.D. Lond., B.Sc. Temp. Lectr.
Vallve, J. Demr.

Classics and Ancient Hist.

Wood, G., M.A. Aberd. and Ox. Assoc. Prof.
Storrs, Rev. C. E., M.A. Camb. Pt.-time Lectr.

Commerce

Pt.-time Lecturers

Duffy, W. G., B.A., B.Com. Lond. (Business Organization).
Halvorsen, H. B., A.C.A. Aust. (Accountancy).

Economics

..... Prof.
..... Lectr.

Education

Cameron, R. G., M.A. Syd. Prof.
12 Part-time Lectrs.

Engineering

Blakey, O. F., M.E. Q'ld., M.I.E. Aust. (Struct. E.) Dean, Fac. of Eng., Assoc. Prof.
Bowden, A. T., B.Sc.Eng. Edin. (Mech. E.) Assoc. Prof.
Fraenkel, P. H., B.E.E. Melb., M.I.E.E., M.I.E.Aust. (Elect. E.) Assoc. Prof.
Wiseman, W. R. B., M.Sc. Manc. (Hydraulics) Lectr.
Townsend, W. G. Asst. Lectr.
Hayman, W. G., B.E., B.Sc. (Radio Eng.) Pt.-time Lectr.
McCullough, W. A., M.E. (Railway E.) Pt.-time Lectr.
Jones, Lt.-Col. F. Murray, B.V.Sc. Melb., M.R.C.V.S. (Milit. Eng.) Pt.-time Lectr.
2 Instrs.

English

Murdoch, W. L. F., C.B.E., M.A. Melb. Prof.
Thompson, H. S., M.A. Assoc. Prof.
King, A., M.A. Ox. Lectr.
Elliott, B. R., B.A., Adel. Temp. Asst.

Forestry

Kessell, S. L., M.Sc. Adel., Dip.For. Ox. Pt.-time Lectr.

French and German

Clarke, Margaret A., M.A. Syd., D. de l'U. Paris Assoc. Prof.
Randall, Jean, M.A., Dip.Ed. Melb. (French.). Pt.-time Lectr.
Graebner, R. M. (German) Pt.-time Lectr.
Lobsteen, J. L., B.A. (French, German) Tutor.

Geology

Clarke, E. de C., M.A. N.Z. Prof.
Prider, R. T., B.Sc. (on leave). Asst. Lectr.
Carroll, Dorothy, B.Sc., Ph.D. Lond. Research Lectr.
Teichart, C., Ph.D., Konigsberg (Palæont.) Reseach Lectr.

History

Alexander, F., M.A. Melb. and Ox. Assoc. Prof.
Reynolds, J. H., B.A. Adel. and Ox. Pt.-time Lectr.

Italian

Vanzetti, F. Pt.-time Lectr.

Journalism

Birtwistle, I. T. Pt.-time Lectr.

Law

Beasley, F. R., B.A. Ox., LL.B. Syd. Dean, Fac. of L., Prof.

Pt.-time Lecturers

Tindal, E. (Contracts and Personal Property).
Blanckensee, E. (Real Property and Conveyancing).
Virtue, J. E., LL.M. (Torts and Crim. L.).
Downing, E. F. (Practice and Procedure).
Simpson, B. E. G. (Equity and Company L.).

Mathematics

Weatherburn, C. E., M.A. Camb., D.Sc. Syd. Prof.
Gamblen, F., B.A. Camb., B.Sc., Dip.Ed. Asst. Lectr.

Philosophy

Fox, A. C., M.A. Syd. Assoc. Prof.
Gibson, Q. B., B.A. Melb. Lectr.

Psychology

Fowler, H. L., Ph.D. Lond., M.A. Dean, Fac. of Arts, Assoc. Prof.
Kaulla, H., Ph.D. Munich Asst. Lectr.

Physics

Ross, A. D., M.A., D.Sc. Glas., F.R.S.E., F.R.A.S., F.Inst.P. Dean, Fac. of Sci., Prof.

Shearer, J., M.Sc. Melb., B.A.	Lectr.	**University Extension**
.....	Lectr.	4 Tutors for Correspondence
Everson, D. W.	Demr.	Courses.
Surveying		**Adult Education**
Nunn, G. M., L.S.	Pt.-time Lectr.	17 Tutors.

AFFILIATED SCHOOLS

PERTH TECHNICAL COLLEGE; SCHOOL OF MINES, KALGOORLIE; MURESK AGRICULTURAL COLLEGE.

GENERAL INFORMATION

Established by Act of the State Legislature in 1911, the Univ. opened its first session in 1913. It has a large endowment of land granted by Govt., including a site of 165 acres for buildings, and receives an annual grant. This was, in 1938, £34,500. The administration is vested in a Senate of 18 persons, of whom 6 are nominated by Govt.

LABORATORIES. Agric., Bot., Chem., Geol., Engin., Phys., Psych., Zool.

FACULTIES. Arts, Sc., Engin. (including Surveying), Law, Agriculture.

DEGREE COURSES: 3 yrs.—B.A., B.Sc., B.Sc. (Agric.); 4 yrs.—B.A. (Hons). LL.B., B.Sc. (Hons.); 5 yrs.—B.E. (a sandwich system during last 3 yrs.) and B.Surv. (including 2 yrs.' field work). First year Med. course in Fac. of Sci.

HIGHER DEGREES. M.A., Litt.D., M.Sc., D.Sc., M.E., LL.M., LL.D.

DIPLOMAS. Education, Journalism, Commerce.

EVENING CLASSES are held in the Arts Faculty only, but certain Science classes may be taken in the evenings at affiliated Colleges.

FEES. Matriculation, no fee. *Ad eundem statum*, £1 : 1s. Admission to Degrees: Bachelors, £3; Masters, £5; Doctors, £10. Annual Examination Fee, 10s. per subject with maximum of £1 : 10s. No lecture fees. Laboratory deposits, £1 per subject. First Year Attendance Deposits, £1 : 1s. per subject. Overseas students not domiciled in Australia, annual and inclusive fee of £40.

PUBLIC EXAMINATIONS. School Certifs. (Junr. and Leaving), Art Certif., Music, and Art of Speech (Elocution).

ADULT MATRICULATION. Persons who have attained the age of 25 yrs. may be admitted as matriculated students in the Faculties of Sci., Agric. and Engin., if the Faculty concerned is satisfied that they possess sufficient educational qualifications. In the Faculty of Arts a modified examination is required, open to persons who have attained the age of 23 yrs. No provision for Adult Matricn. is made in the Faculty of Law.

PUBLICATIONS. *Calendar* (Oct.) 1937, and supplement to Calendar issued for 1938; *Public Examn. Manual*; *Black Swan* (Students' Magazine); *Pelican* (Students' newspaper, 2 or 3 times each term).

THE YEARS 1937, 1938

NEW BUILDINGS. New building for Agriculture at cost of £14,000 completed October 1938. Construction of a new Main Library and proposed Women's Residential Hall under consideration.

NEW POSTS. Appointment to position of Academic Secretary and Student Adviser taken up in April 1938.

EXTRA-MURAL WORK. Extension lectures and Adult Education Lectures continued as in previous years. Many educational lectures broadcast by members of the Univ. Staff.

VISIT OF MEMBER OF STAFF TO OTHER UNIVERSITIES. Dr. G. A. Elliott (Chem.), on leave 2nd and 3rd terms 1938 and 1st term 1939, visiting Europe.

RESIGNATIONS. J. O. Shearer (Econ.), on appt. as lecturer at Victoria University College, Wellington, New Zealand; R. R. Nimmo (Physics), proceeding to Birmingham University to undertake research work.

STUDENTS (1938). Full-tme, 350; part-time, 446; external, 107. Of these, 17 are doing 2 courses, making a total number of individual students, 886.

DEGREES (1938). B.A., 53; M.A., 2; LL.B., 5; B.Sc., 24; M.Sc., 1; B.Sc. (For.), 1; M.Sc. (For.), 1; B.Sc. (Agric.), 3; M.Sc. (Agric.), 1; B.E., 10; Dip.Ed., 10; Dip.Journ., 4; Dip.Com., 1.

UNIVERSITY OF NEW ZEALAND

Founded 1870

Address—P.O. Box 1524, Wellington, C.1.

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—Hon. J. A. HANAN, D.C.L. Durh., M.L.C.

PRO-CHANCELLOR AND CHAIRMAN, ACADEMIC BOARD—Professor J. HIGHT, C.M.G., M.A., Litt.D.

VICE-CHANCELLOR—Professor T. A. HUNTER, M.A., M.Sc.

REGISTRAR—I. F. MCKENZIE, M.A., B.Com.

AGENT IN ENGLAND—A. J. HARROP, Ph.D. Camb., Litt.D., 88 Gower Street, London, W.C.1.

CONSTITUENT COLLEGES

UNIVERSITY OF OTAGO, DUNEDIN; CANTERBURY COLLEGE, CHRISTCHURCH; AUCKLAND UNIVERSITY COLLEGE; VICTORIA UNIV. COLLEGE, WELLINGTON.

ASSOCIATED COLLEGES

CANTERBURY AGRICULTURAL COLLEGE, LINCOLN; MASSEY AGRICULTURAL COLLEGE, PALMERSTON NORTH.

This University, an examining body, was founded in 1870. Its constitution, defined by the N.Z. Univ. Act, 1908, as amended in 1912, 1914, 1915, 1926, 1930 and 1937, vests the Government of the Univ. in a Senate of 24 members, assisted, as regards schemes of study, etc., by an Academic Board representing the College Professorial Boards and a University Entrance Board, on which there are representatives of the Academic Board, the Department of Education, and the Secondary Schools. The Senate consists of 4 members nominated by the Governor, 8 appointed by the College Governing Bodies, 5 by General Court of Convocation, 3 by the Academic Board, 1 by the Senate itself, 1 by the School of Agriculture, and the Director of Education. The Chancellor, Pro-Chancellor, and Vice-Chancellor are elected by the Senate; the first (or, in his absence, the second) presides at meetings of the Senate. Under the New Zealand University Amendment Acts of 1926 and 1928 and the Massey Agricultural College Act, 1927, Canterbury Agricultural College, Lincoln, and Massey Agricultural College, Palmerston North, were given representation on the Academic Board, and the expression "Professors of the University" includes Professors on the staffs of the two Agricultural Colleges as well as Professors on the staffs of the four Constituent Colleges. The governing bodies cannot make any appointment to a chair without the prior approval of the Senate. There are no University buildings: the offices are at Wellington.

MATRICULATION. Candidates must pass in 5 subjects, including English, Maths., and one language. A candidate who does not pass in Latin or

Greek must pass in Physics or Chemistry (or Home Science), or Botany or Agriculture. Not more than two of these sciences can be taken; in the syllabus prominence is given to their practical aspect. The examn. is held in Dec. Special provision is made for exemption of persons not under 21 years of age and students from other Univs.

TERMS. A student presenting himself for a Univ. examn. for which the keeping of terms is required must have passed the College examn. in the subjects he offers at the corresponding stage. The terms are: Autumn (March-May), Winter (June-Aug.), and Spring (Sept.-Oct. or Nov.). The subjects in which terms must be kept are: all those of the B.A., B.Sc., B.Sc. in H.Sc., B.E., M.B., Ch.B., B.D.S., B.Agr.Sc., B.For.Sc., B.Arch., and LL.B. degree courses; of the 1st and 2nd Groups of the B.Com. course.

Any student who is on the books of a constituent College, and who has passed its annual examn., is deemed to have kept the terms of the year if he has attended the prescribed courses, *or*, being resident more than 10 miles from College or engaged in acquiring a profession or trade or earning a livelihood, has been thereby prevented from attending, *or* objects on grounds of religious scruples to such attendance.

DEGREE COURSES: 3 yrs.—B.A., B.Sc., B.Mus., B.Agr.Sc. (including practical work on farm), B.For.Sc.; 4 yrs.—B.Sc. in Home Science, B.Arch. (including 18 mos.' practical work), LL.B., B.E. (Mech., Elec., Civ., Mining, Metall., including from 9 to 18 mos. in shops, mines, or surveying), B.Com., B.Vet.Sc.; 4½ yrs.—B.D.S.; 6 yrs.—M.B., Ch.B., B.Med.Sc.

HIGHER DEGREES. M.A., M.Sc., LL.M., M.Com., M.S.; Litt.D., D.Sc., LL.D., M.D., D.D.S., D.Mus. For the Mastership examn. and thesis are required. The Doctorate may be taken by a Bachelor of 5 yrs.' (in Med. 3 yrs.') standing who offers suitable original work and, if in Arts, Sc., or Law, has already obtained the Mastership or equivalent degree, or, if in Med. or Music, passes a prescribed examn.

DIPLOMAS. Public Health, Journalism, Education, Banking, Insurance, Fine Arts. *Certificate* of Proficiency in Dental Surgery. Shipping Officers' *Certificate*.

PROFESSIONAL AND TECHNICAL SCHOOLS. *Law* and *Commerce* at all the constituent Colls.; *Medical* and *Dental* and *Home Science* at Otago; *Engineering* (Civil, Electrical, and Mech.) at Canterbury and Auckland; *Mining* and *Metallurgical Engineering* at Otago; *Music* at Auckland, Canterbury, and Otago; *Agric.* at Lincoln and at Palmerston N. (Massey College); *Architecture* at Otago and Auckland; *Fine Arts* at Canterbury.

"AD EUNDEM" RECOGNITION. Courses completed, or partially completed, at any British chartered or other approved Univ. are accepted *ad eundem*.

SCHOLARSHIPS FOR GRADUATES. In almost every subject of the B.A. or B.Sc. syllabus and in Law, Medicine, Dentistry, and Engineering—£70; Travelling Schol'ps. in Arts, Science, French, Law, Architecture—£200 (2 yrs.) each, in Engin. and Med.—£150 each; Macmillan Brown Research Schol'p. in Agr. (biennial)—£200 (2 yrs. possible). Four National Research Scholarships (£100) are offered annually to graduates of the N.Z. University or other approved persons; also Shirtcliffe Fellowship for Research, £250 p.a. for 2 yrs.; Shirtcliffe Research Scholarship, £100 (1 yr.); Shirtcliffe Graduate Bursary, £75 (1 yr.). 2 Carnegie Fellowships in Education.

Four first-class return passages to England are granted annually to graduates proceeding to Europe to continue their studies.

ADULT EDUCATION. Classes are conducted under the control of the Council of each College through an Executive Committee on which the Council and the W.E.A. are represented. The Government granted £6500 divided among the Constituent Colleges for general or specific purposes.

PUBLICATIONS. *Calendar* (Oct.), 3s. (incl. postage); *Minutes of Prodgs.* of *Senate*, free; *Examn. Papers*, 6d. or 1s. a set.

THE YEAR 1937

CHANGES IN REGULATIONS. Only of minor nature.

DEATH. Sir Algernon P. W. Thomas, K.C.M.G., M.A., F.L.S., Emeritus Prof. of Natural Science, former member of Senate.

STUDENTS. Full-time: 1730, including 174 graduates. Part-time: 2732, including 295 graduates.

DEGREES. B.A., 174; M.A., 85; B.Com., 51; M.Com., 12; LL.B., 46; LL.M., 14; B.E., 21; B.Sc., 62; M.Sc., 45; B.Agr.Sc., 16; M.Agr.Sc., 1; B.H.Sc., 4; M.B., Ch.B., 63; M.D., 1; B.D.S., 16; Mus.B., 4.

UNIVERSITY OF OTAGO, DUNEDIN

Founded 1871

VISITOR—H.E. THE GOVERNOR-GENERAL.
CHANCELLOR—W. J. MORRELL, M.A. Ox.
VICE-CHANCELLOR—L. DEANS RITCHIE.
REGISTRAR—H. CHAPMAN, B.A.
LIBRARIAN—W. J. HARRIS, B.A. Ox.
LIBRARIAN MED. SCH.—W. J. MULLIN, M.B., Ch.B., F.R.C.S.

TEACHING STAFF

Accountancy
Thomas, A., M.Com. Lectr.
2 Tutors.

Anatomy
Gowland, W. P., M.D., B.S. Lond., F.R.C.S. Eng. Prof.

Architecture
Miller, E., A.R.I.B.A. Lectr.
Scoular, S. G., B.E. (Descr. Geom.) Lectr.

Biology
Marples, B. J., M.A. Ox., M.Sc. Manc. Prof.
Fyfe, Marion L., M.Sc. Asst.

Botany
Holloway, Rev. J. E., D.Sc., F.R.S. Lectr.

Chemistry [Prof.
Soper, F. G., Ph.D., D.Sc. Wales
Carter, C. L., M.Sc., A.I.C. Lectr.

Classics
Adams, T. D., M.A. Prof.
Turnbull, Mary I., M.A. Asst.

Dentistry, v. *infra*

Economics
Souter, R. W., M.A., Ph.D. Columbia Prof.
Billing, G. C., B.A. Adel. Lectr.

Education [Prof.
Lawson, R., M.A., Litt.D. Melb.

English Lang. and Lit.
Ramsay, H., M.A. St. And. Prof.
Cameron, G. M., M.A. Asst.

Ethnology
Skinner, H. D., M.A., Dip.Anth. Camb., B.A. Lectr.

Geology and Mineralogy
Benson, W. N., B.A. Camb., D.Sc. Syd., F.G.S. Prof.
Turner, F. J., D.Sc., F.G.S. Asst.

Hebrew
Hunter, S. F., M.A., B.D. Glas., D.D. Melb. Lectr.

History
Elder, J. R., C.M.G., M.A., D.Litt. Aberd. Prof.
McClymont, W. G., M.A. Asst.
Ross, A., M.A. Asst.

History, Constitutional
Lang, J., M.A., LL.B. Lectr.

Home Science
Strong, Ann G., O.B.E., B.Sc. Columbia Dean and Prof.
Gregory, Elizabeth, Ph.D. Lond., M.H.Sc. Lectr.
Bowbyes, Avice M., B.S. Columbia, Dip. H.Sc. Lectr.
MacGibbon, C. H., M.Sc. Chicago, B.H.Sc. Lectr.
5 Assts.

Law

Lecturers

Stephens, A. C., LL.M. (Jurispr.). Dean, Fac. of Law.
Neill, A. G. (Crim. Law).
Thomson, J. B., LL.B. (Contracts).
Cook, H. L., LL.B. (Trusts, etc.).
Anderson, P. S., B.A., LL.B. (Property L.).
Ward, J. P. (Practice and Proc.).
Hanan, F. M., LL.M. (Torts).
Paterson, J. M., M.C., M.A., LL.B. (Accountancy L) Dean, Fac. of Commerce.
Fairmaid, R. L. (Conveyancing).
White, C. J. L. (Evidence).
Haggitt, A. N., LL.B. (Rom. Law).
Barrowclough, C. B., B.A., LL.B. (Conflict of Laws).
Curzon-Siggers, W. A., LL.M. Camb., M.A. (Pub. Intern. L.).
McIver, L. D. (Auditing).

Mathematics, Pure and Applied

Bell, R. J. T., M.A., D.Sc. Glas. Dean, Fac. Arts and Sci. Prof.
Orton, A. A., B.A., M.Sc. W. Aust. Beverly Lectr.

Metallurgy and Assaying

Black, H. Lectr.

Mining

Andrew, A. R., D.Sc., F.G.S., M.Am.I.M.E. Dean and Prof.
Batham, G. S., B.Sc. (Appl. Elect.) Lectr.

Modern Languages

Thompson, G. E., M.A., Litt.D., O.A. Prof.
Barron, Vida M., M.A. Asst.
1 Tutor.

Music

Galway, V. E., Mus.D. Melb. Lectr.

Philosophy, Ment. and Moral

Findlay, J. N., M.A. Ox. and S. Africa, Ph.D. Graz. Prof.

Physics

Jack, R., M.A., D.Sc. Glas., Ph.D. Gött. Prof.
Focken, C. M., B.M.E., B.Sc. Melb., D.Phil. Ox., M.S. Col., F.Inst.P. Beverly-Mackenzie Lectr.
Blackie, Agnes R., M.Sc. Asst.

Physiology

Malcolm, J., M.D. Edin. Prof.
Bell, M. E., M.D. Lectr.
Edson, N. L., M.B., Ch.B., B.Med. Sc., Ph.D. Camb. Lectr.

Psychology, Experimental

Ferguson, H. H., M.A. St. And. Lectr.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics

Whyte, Marion K. B., M.B., Ch.B. Lectr.

Bacteriology and Pub. Health

Hercus, C. E., D.S.O., O.B.E., M.D., B.D.S., D.P.H. Dean, Fac. of Med., Prof.
Davies, K. J. H., L.M.S.S.A. Lond. Asst.

Diseases of Children

Williams, E. H., M.B., Ch.B., M.R.C.S. Lectr.

Ear, Nose, and Throat

Ross, K., M.A., M.B., C.M., D.P.H. Lectr.

Gynæcology, v. Midw. and Gyn.

Medical Jurisprudence

D'Ath, Prof. E. F., M.B., Ch.B. Lectr.

Medicine

Carmalt-Jones, D. W., M.A., D.M. Ox., F.R.C.P. Lond. Mary Glendining Prof., Chairman of Professorial Board.

Medicine, Clinical

Fitchett, F. W. B., M.D., C.M. Edin., M.R.C.S. Prof.
Carmalt-Jones, Prof. D. W. Lectr.
Moore, S.A., M.D.Edin., B.A. Lectr.
Iverach, J. A. D., M.C., B.A., M.B., Ch.B., F.R.C.P.E. Asst. Lectr.
Porteous, W. J., M.D., F.R.C.S.E. Asst. Lectr.
Borrie, W. H., M.B., Ch.M. Edin. Asst. Lectr.

And Hon. Staff of Dunedin Hospl.

Mental Diseases

Brown, M., M.B., Ch.B. Glas. Lectr.

Midwifery and Gynæc

Dawson, J. B., M.D., B.S. Lond., F.R.C.S., L.R.C.P. Prof.
Ritchie, R. I., M.B., Ch.B., M.R.C.S., L.R.C.P. (Obstet.) Tutor.
Fitzgerald, G. P., M.B., Ch.B. (Clin. Gynæc.) Asst. Lectr.
Perry, A., M.B., Ch.B., F.R.C.S. (Gynæc.) Tutor.

Ophthalmology

Carswell, W. E., M.B., Ch.B., F.R.C.S., L.R.C.P. Lectr.

Ophthalmology, Clinical

Cottrell, A. J., M.A., M.Sc., M.B., Ch.B. Asst. Lectr.
Geerin, S. L., M.B., Ch.B., D.O.M.S. Asst. Lectr.

Pathology

D'Ath, E. F., M.B., Ch.B. Prof.
Chapman, Eileen N., M.B., Ch.B. Liv. Asst.
Watt, M. N., M.B., Ch.B. Clin. Pathologist.

Pharmacology and Therap.

Fitchett, Prof. F. W. B. (v. also Med. Clin.) Lectr.
Iverach, J. A. D., M.C., B.A., M.B., Ch.B., F.R.C.P. Edin. Asst.

Radiology

MacVicar, W., M.D. Manit., F.R.C.S.E. Lectr.
Barclay, Ruth M., M.B., Ch.B., D.M.R.E. Edin. Lectr.

Surgery

Bell, F. Gordon, M.D. Edin., L.R.C.P., F.R.C.S. Ralph Barnett Prof.

Assistants

White, J. R., M.B., Ch.M., F.R.C.S.
Barnett, G. M. F., M.B., Ch.B., F.R.C.S.
Fulton, R. A. H., M.B., Ch.B., F.R.C.S. (and Clin. Tutor).

Surgery, Clinical

Lecturers

Jenkins, J. A., M.B., Ch.M., F.R.C.S.
Fergus, T., M.B., Ch.B., F.R.C.S.E.

Asst. Lecturers

Greenslade, C. M., M.B., Ch.B., F.R.C.S.
Speight, N. C., M.B., Ch.B., F.R.C.S.E.
Fitzgerald, H. W., M.B., Ch.B., F.R.C.S.E.

And Hon. Staff of Dunedin Hospl.

Dentistry

Dodds, R. B., D.D.S. Dean and Prof.
Burt, J. R., L.D.S., R.C.S. Edin. Assoc. Prof.
Rout, O. E. L., B.D.S. Lectr.
Craddock, F. W. Lectr.

Adult Education

Director—Prof. R. W. Souter.
W.E.A. Classes, 9 Lecturers.
Home Science Extension, 5 Tutors.

GENERAL INFORMATION

Founded by Ordinance of the Provincial Council in 1869 with power to grant degrees in Arts, Medicine, and Law, the Univ. was opened in 1871. The Law School originated in 1873, the Medical in 1874, the School of Mines in 1878, the Dental School in 1907, the Accountancy Lectures and the Home Science Dept. in 1911. Between 1869 and 1877 the Univ. received grants of land exceeding 220,000 acres. It is entirely unconnected with any religious denomination except that the right of nomination to certain Chairs endowed by the Presbyterian Church rests with the Board of Church Property, subject to the approval of the Synod. It receives annual Government grants of approximately £20,000.

By an agreement effected in 1874 the Univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of N.Z.

LIBRARIES. Main Library, including Departml. Libraries, 45,000 vols.; Med. Library, 15,000 vols.; also the Hocken collection of pamphlets and MSS. bearing on the History of N.Z. MUSEUMS: Biol., Ethnog., Geol., Anat., Path. LABORATORIES: Phys., Chem., Physiol., Bact., Path.

FACULTIES. Arts, Science, Music, Medicine, Dentistry, Mining, Law, Commerce, and Home Science.

COURSES. Degree courses in all Faculties (v. p. 631). Certificate in Dental Surgery, 4 yrs. Associateship of Otago School of Mines (A.O.S.M.), 4 yrs. Associateship in Home Science, 3 yrs. Diploma of Mining, Metallurgy, Geology or Land and Mine Surveyor, 2 yrs. Diploma in Public Health, open to registered medical practitioners of 2 yrs.' standing.

CLASS FEES. In separate subjects—in Arts generally, £5 : 5s. for complete course; Science, £8 : 8s.; Law from £1 : 15s. to £5 : 5s.; Commerce, £1 : 10s. to £5. Medicine, all subjects aggregate (6 years), about £220, exclusive of Univ. fees, £37 : 16s.; Dentistry (4½ years), £180, exclusive of Univ. fees, £24; Mining (4 years), £136; 15s.; Home Science (4 years), £130 : 6s.

RESEARCH SCHOLARSHIPS, ETC. Edmond Industrial (Chemical) Research, £200, tenable 2 yrs.; Smeaton Research in Experimental Science, £60 for first year and £200 for second. The first is open to any person domiciled in N.Z., the second to graduates of Otago. Ross (Knox College), £150, 2 yrs.; Sir R. Stout (Economics), £50; and Anna P. Stout (Economics and History and Home Science—women), £50; all open to graduates of Otago. OTHER RESEARCH FUNDS: Roberts, Sir Lindo Ferguson, and Barnett endowments, slightly exceeding £2000 each for research in med. and surg.

HOSTELS. Presbyterian for men and women; Anglican for men; Home Science Students'. Cost of board and lodging, 30s. to £2 a week.

UNIV. EXTENSION. Since 1916, classes in connexion with the W.E.A. in Dunedin and Invercargill have met with very great success.

EXTRA-MURAL WORK. The Home Economics Extension work is combined with the Cultural extension work carried on by Canterbury Coll., Christchurch, under an association known as the A.C.E. (Association for Country Education), controlled jointly by Canterbury Coll. and the Univ. of Otago. This permits of the Cultural and the Home Economics Extension work being provided in both provinces.

THE YEARS 1937, 1938

BENEFACTIONS. Carnegie Corporation, £500 for agricultural exhibit in the Museum.

STUDENTS. Full-time: 905, including 57 graduates. Part-time: 461, including 54 graduates.

DEGREES OBTAINED. B.A., 40; M.A., 18; B.Com., 10; LL.B., 5; LL.M., 3; B.Sc., 13; M.Sc., 7; B.H.Sc., 4; B.E., 2; Mus.B., 2; Mus.D., 1; M.B., Ch.B., 62; M.Ch., 1; B.D.S., 16.

CANTERBURY UNIVERSITY COLLEGE, CHRISTCHURCH

Founded 1873

VISITOR—THE MINISTER OF EDUCATION.
CHAIRMAN OF COUNCIL—A. E. FLOWER, M.A., M.Sc.
RECTOR—Prof. JAMES HIGHT, C.M.G., M.A., Litt.D. (Pro-Chancellor of the University and Chairman of the Academic Board.)
REGISTRAR—C. C. KEMP, A.R.A. N.Z., F.C.S. N.Z.
LIBRARIAN—C. W. COLLINS, M.A.

TEACHING STAFF

Accountancy, v. also Law
Holland, C. C., F.P.A. N.Z., F.I.A.N.Z. Lectr.
Perkins, C. H., B.Com., A.P.A.N.Z. Asst. Lectr.
Henry, J. A., B.Com., A.R.A.N.Z. Asst.

Art
Wallwork, R., A.R.C.A. Lond. Lectr. (A. & Hist. of A.) & Director Sch. of Art.

Biology
Percival, E., B.Sc. Leeds (Dean Fac. Sc.) Prof.
Foweraker, C. E., M.A., F.L.S. (Bot.) Lectr.
Heine, E. M., M.Sc. Lectr.
Bleakley, M. C., M.Sc. (Zool.) Demr.

Botany, v. Biology

Chemistry [Prof.
Denham, H. G., D.Sc. Liv., Ph.D. Heid., M.A., M.Sc., F.I.C.
Packer, J., M.Sc. Melb. Lectr.
Parton, H. N., Ph.D. Lond., M.Sc. Asst. Lectr.
Hurst, R., M.Sc. Demr.
2 Student Assts.

Classics
Pocock, L. G., M.A. Lond. Prof.
Broadhead, H. D., M.A. Camb., B.A., Litt.D. Lectr.
Bennett, F. J., M.A. Asst. Lectr.

Economics
Tocker, A. H., M.A. (Dean Fac. Com.) Prof.
Lawn, G., M.A. Lectr.

Education
Field, H. E., Ph.D. Lond., M.A. Prof.
Winterbourn, R., M.A. Asst. Lectr.
Crowther, D., M.A. Asst. Lectr.

Engineering, v. *infra*

English Lang. and Lit.
Sinclaire, F., M.A. Prof.
Rhodes, H. W., M.A. Melb. Lectr.

French and German
Malthus, C., M.A., Litt.D. Prof.
White, J. F. D., B.A., M.Sc. (French) Lectr.

Geography
Jobberns, G., M.A., D.Sc. Lectr.
Cumberland, K. R., M.A. Lond. Asst. Lectr.

Geology
Allan, R. S., M.Sc., Ph.D. Camb. Lectr.

History and Political Science
Hight, J., C.M.G., M.A., Litt.D. Prof.
Candy, Alice M. F., M.A. Lectr.

Wilson, G. T. J., B.A. Camb., M.A. Asst. Lectr.

Journalism

Henderson, A. G., M.A. Lectr.

Law

Pt.-time Lecturers

Gresson, K. M., LL.B. (and Accty. L.) (Dean).
Gee, L. W., LL.M.
Brassington, A. C., LL.B.
Cuthbert, R. A., B.A., LL.B. (Accty. L.).
Brown, A. W. (and Accty. L.).
Archer, K. G., LL.B.
Haslam, A. L., D.Phil., B.C.L. Ox., LL.M.
Wills, E. P., B.A., LL.M., M.Com.

Mathematics

Saddler, W., M.A., D.Sc. St. And., B.A. Camb. Prof.
Darwin, L. J., M.A. Adel. Lectr.

Music

Bradshaw, J. C., Mus.D. Manc., F.R.C.O., L.R.A.M., A.R.C.M. (Dean.) Prof.

Philosophy, Mental and Moral

Sutherland, I. L. G., Ph.D. Glas., M.A. (Dean, Fac. Soc. Sc.) Prof.
Popper, K., Ph.D. Vienna Lectr.

Physics

White, F. W. G., Ph.D. Camb., M.Sc. Prof.
Macleod, D. B., M.A., D.Sc. Lectr.
Ellyett, C. D., M.Sc. Asst.
Lehany, M. F., M.Sc. Asst.

Engineering

Civil

Cull, J. E. L., B.Sc. Eng. Prof.
Calvert, G. G., M.I.Struct.E., M.N.Z.S.C.E. Lectr.
Barnett, C. O. Lectr.

Electrical

Powell, P. H., M.Sc. Manc., M.Eng. Liv., M.I.E.E. Dean, Fac. Engin., Prof.
Pollard, T. R., A.A.I.M.E. Lectr.
Wright, W. S., B.E. Temp. Demr.

Mechanical

Steele, S., B.Sc.Mech.Eng. Prof.
Lush, A., B.E. Lectr.
Burrell, G. J., B.E. (Mech.) Asst. Lectr.
Bamford, P. G., B.E. Testing Engr.

Adult Education

Director: H. E. Field, Ph.D. Lond., M.A.
Staff-Tutor (W.E.A.): J. Johnson, M.A.
Travelling Tutors: D. Dolton, M.A.; G. A. Worthington.

GENERAL INFORMATION

Created by Provincial Ordinance, 1873, and affiliated to the Univ. of N.Z., 1874. Value of lands, buildings, equipment, etc., over £1,015,000, including £507,376 for the High Schools, School of Art, Museum, and Public Library controlled by the Council. Annual Govt. subsidies and grants, £12,920 for College. The *Rector* is the academic head of the College and the permanent Chairman of the Professorial Board. LABORATORIES: Biol., Chem., Engin., Phys., Educational Psychology.

DEGREE COURSES in Arts, Science, Mus., Com., and Engin. (v. also p. 631), and Certif. or Diploma courses in Journalism, Education, Banking, and Fine Arts. Evening courses in Mech. and Elec. Engin. and Com.

CLASS FEES. Per session in each subject in Arts or Science, 5 gs.; Laboratory Research, 8 gs.; Law and Commerce subjects, 2 to 4 gs.

HOSTELS. Rolleston House (men) : Helen Connon Hall (women).

SCHOLARSHIPS include one of £50 for one yr., open to students in their 3rd yr. ; one of £50 annually, tenable for 3 yrs., to entrants ; one of £50 for 2 yrs. for students not yet eligible for final section of B.A. ; 4 of £50 for 3 yrs. for residents in the four Univ. districts of N.Z. ; one of £85 for 4 yrs. to a pupil of Nelson Boys' Coll. for the B.Sc. and M.Sc. degrees ; 2 of £25 or £45 for 3 yrs. ; one of £50 for research in Science, open to graduates, renewable up to 3 yrs. ; one of £150 p.a. for 2 yrs. plus £38 for travelling, tenable at Royal Holloway Coll., England ; one of £150 in Engineering, open to B.E., tenable outside N.Z. ; one (Hartley) for women graduates, offered every third year, £300 p.a. for 3 yrs. tenable ordinarily at Oxford, Cambridge, or London. There is a Students' Loan Fund of £1000 and Dr. A. F. J. Mickle Students' Loan Fund of £1700.

PUBLICATIONS. *Calendar* and *Commemoration Day Address* (March). Annual Statement of the Chairman (June). *Canta*, 26 issues a year, subscription 2s. 6d. *Review*, annual (Oct.). *Annual Report, Trans. of Coll. Engineering Soc.*, 2s. 6d.

THE YEAR 1937

BENEFACTIONS. Canterbury Chamber of Commerce, £100 towards upkeep of Economics Dept. Carnegie Corporation of New York, £1380 for continuation of extension work in rural districts, and £251 for Workers' Educational Association work. The late Mrs. A. M. E. Mickle, about £1700, to be held for establishment of Dr. A. F. J. Mickle Student Loan Fund to assist deserving students. The late Robert Bell, £5000 for establishment of Travelling Scholarships of £100 each for students who have taken Dip. in Journalism at Canterbury College.

NEW DEVELOPMENTS. Establishment of Chair of Music and foundation of College Choral Society. Provision for increase of Library staff.

EXTRA-MURAL WORK. The experimental Country Library Service has been so successful that Govt. is establishing it on a Dominion-wide basis.

STUDENTS. Full-time, 358. Part-time, 698. Extra-mural students, 95.

DEGREES OBTAINED (1937). B.A., 55 ; M.A., 15 ; B.Com., 17 ; M.Com., 2 ; B.E., 19 ; LL.B., 6 ; LL.D., 1 ; B.Sc., 20 ; M.Sc., 8 ; D.Sc., 2 ; Mus.Bac., 2 ; Dip. in Banking, 2 ; Dip. in Edn., 4 ; Dip. in Fine Arts, 6 ; Dip. in Journalism, 2.

AUCKLAND UNIVERSITY COLLEGE

Founded 1882

VISITOR—THE MINISTER OF EDUCATION.

PRESIDENT OF COUNCIL—W. H. COCKER, M.A., LL.B. Camb., B.A., LL.B.

VICE-PRESIDENT OF COUNCIL—A. H. JOHNSTONE, K.C., B.A., LL.B.

REGISTRAR—L. O. DESBOROUGH, B.Com.

LIBRARIAN—ALICE E. MINCHIN, B.L.S. Mich., B.A.

TEACHING STAFF

Accounting, etc.

Holt, L. W., M.Com. Lectr. (in Charge).

Kay, R. M., B.Com. Lectr.

Architecture

Knight, C. R., B.Arch., M.A. Liv., A.R.I.B.A. Prof.

Crookes, S. I., B.A., M.I.Struct.E. Lectr.

Chisholm, A. M., A.R.I.B.A. Lectr.

Turkington, Jas. (Art) Lectr.

Botany

Lancaster, T. L., M.Sc., F.L.S. Hd. of Dept., Lectr.

Ashcroft, E. Beatrice, M.Sc. Asst. Lectr. & Demr.

Chemistry

Worley, F. P., D.Sc. Lond., M.A., M.Sc., D.I.C. Prof.

Robinson, R. A., M.Sc., Ph.D. Birm., A.I.C. Lectr.

Briggs, L. H., D.Phil. Ox., M.Sc. Lectr.

Classics

Cooper, C. G., M.A. St. And. Prof.

Blaiklock, E. M., M.A. Lectr.

Crawley, L.W.A., B.A., Camb., M.A. Lectr.

Dental Mechanics

Kinnear, J. S., B.D.S. Lectr.

Economics [Prof.

Belshaw, H., Ph.D. Camb., M.A.

Rodwell, H. R., M.A. Lectr.

Education

Fitt, A. B., Ph.D. Leip., M.A. Prof.

Thompson, A. B., M.A., Dip. Ed. Lectr.

Engineering

Lamb, S. E., B.Sc. Lond., A.R.C.S. Eng. (Applied Mechanics, etc.) Director, Prof.

Dawson, C. (Elec. E., etc.) Lectr.

McLaren, E. J. R. Demr. & Asst. Lectr.

Jebson, W. N. Demr. & Asst. Lectr.

English

Sewell, W. A., B.A. Leeds and Ox., B.Litt. Ox. Prof.

Ardern, P. S., B.A. Ox., M.A. Lectr.

Geology [Prof.

Bartrum, J. A., M.Sc., A.O.S.M.

Searle, E. J., M.Sc. Demr.

Hebrew

Ranston, H., M.A., Litt.D. Lectr.

History

Rutherford, J., M.A. Durh., Ph.D. Mich. Prof.

Airey, W. T. G., B.A. Ox., M.A. Lectr.

Journalism

Melville, R. H., B.A. Lectr.

Law

Stone, J., B.A., D.C.L. Ox., S.J.D. Harv., LL.M. Leeds Prof.
Goodall, S. I., LL.M. Asst. Lectr.
Tuck, W. R., M.A., LL.M. Asst. Lectr.

Mathematics

Forder, H. G., B.A. Camb. Prof.
Bullen, K. E., Ph.D. Camb., M.A., B.Sc. Lectr.
Segedin, C. M., M.Sc. Asst. Lectr.

Modern Languages

Walker, M., M.A., B.Com. Prof.
Miller, Dora L., M.A., Cert. Assn. Phon. Internat. (Paris) Lectr.

Music

Hollinrake, H., M.A., Mus.B. Camb. Prof.

Philosophy

Anderson, W., M.A. Glas. Prof.
Anschutz, R. P., Ph.D. Edin., M.A. Lectr.

Physics

Burbidge, P. W., B.A. Camb., M.Sc. Prof.
Brown, D., Ph.D. Brist. Lectr.
Sagar, F. H., M.Sc. Lectr. & Demr.

Zoology

McGregor, W. R., B.Sc. Hd. of Dept., Lectr.
Stephenson, N.G., B.Sc. Demr.

Adult Education

Martin Smith, P., M.A., LL.B., Dip.Ed. Director.
Higgins, E. M., B.A. Ox. and Melb. Tutor-Organiser.

GENERAL INFORMATION

Established by Act of the N.Z. Legislature in 1882, the College was affiliated to the Univ. of N.Z. in 1883. It received in 1885 an endowment of 30,000 acres of land, of which one-third was sold in 1915 for £10,246. During 1937 it received grants from the Govt. totalling £21,000.

Of the 14 members of the College Council 3 are appointed by the Governor, 2 by the Prof. Board, 1 by local bodies, 4 are elected by the graduates, 3 by the Auckland members of the General Assembly, and 1 by the Education Bd. Legislation was passed in 1923 permitting of the appointment of a Principal to the College.

COURSES are provided for the degrees of the Univ. in Arts, Science, Architecture, Law, Music, Commerce, and for the Associateship of the College in Engineering (3 yrs.) and the Journalism Diploma.

FEES. Arts, usually £5 : 5s., Science, £5 : 5s. to £8 : 8s., Law, £3 : 3s. to £4 : 4s., Commerce, £2 : 2s. to £4 : 4s. per subject p.a.

PUBLICATION. *Calendar* (Feb.).

THE YEARS 1937, 1938

BENEFACTIONS. Walter Kirby Singing Scholarship, £1000; Casement Aickin Memorial Bursary, £500.

RESIGNATIONS. Prof. R. M. Algie (Law), on appt. as Organizer, Auckland Provincial Freedom Assoc.; N. M. Richmond (Adult Educ.), on appt. as Director of Tutorial Classes and Lectr. in Econ. History, Univ. of Queensland.

DEATHS. H. J. D. Mahon, President of the College; Emeritus Prof. Sir A. P. W. Thomas.

EXTRA-MURAL WORK. 146 extra-mural students.

STUDENTS. Full-time: 312, including 21 graduates. Part-time: 760, including 80 graduates.

DEGREES OBTAINED (1937). B.A., 35; M.A., 14; B.Sc., 18; M.Sc., 6; LL.B., 8; LL.M., 5; B.Com., 13; M.Com., 3; Mus.Bac., 1; B.Arch., 7; Dip.Ed., 3.

VICTORIA UNIVERSITY COLLEGE, WELLINGTON

Founded 1897

VISITOR—THE MINISTER OF EDUCATION.

CHAIRMAN OF COUNCIL—P. LEVI, M.A.

PRINCIPAL—Professor T. A. HUNTER, M.A., M Sc. (Vice-Chancellor of the University)

REGISTRAR—G. G. S. ROBISON, M.A.

LIBRARIAN—H. G. MILLER, M.A.

TEACHING STAFF

Biology

Kirk, H. B., M.A. Prof.
Newman, I. V., M.Sc. Syd., Ph.D. Lond. Lectr. & Demr.
Palmer, C. E., M.Sc. (Zool.) Lectr. & Demr.

Chemistry

Robertson, P. W., M.A. Ox., Ph.D. Leip., M.Sc. Dean and Prof.
Monro, A. D., M.Sc. Lectr.
1 Demr.

Classics

Brown, J. R., M.A. Ox. & St. And., LL.D. St. And. Prof.
Elliott, J. R., B.A. Syd., M.A. Camb. Lectr.

Economics

Murphy, B. E., M.A., B.Com., LL.B. Dean and Prof.
Shearer, J. O., M.A. Lectr.
Heine, Hilda G., Ph.D. Berl., M.A. Lectr.

Education

Gould, W. H., M.A. Prof.
Campbell, A. E., M.A. Lectr.

English Language & Lit.

Gordon, I. A., M.A. Edin. Prof.
Cochran, A. B., M.A. Ox. and N.Z. Lectr.

Geology

Cotton, C. A., D.Sc., F.G.S. Prof.
Sticht, J. H. Demr.

History [Prof.

Wood, F. L. W., B.A. Syd., M.A. Ox.
Beaglehole, J. C., Ph.D. Lond., M.A. Lectr.

Law, English and N.Z. [Prof.

Williams, J., Ph.D. Camb., LL.M.
Powles, G. R., LL.B. Pt.-time Lectr.
Macarthur, Ian Pt.-time Lectr.
Cleary, T. P. Pt.-time Lectr.

Law, Roman, etc.

Adamson, J., M.A., LL.B. Edin. Dean and Prof.
Hain, C. H., LL.B. Asst. Lectr.
Scott, C. E., LL.M. Asst. Lectr.

Mathematics

Miles, F. F., M.A. Ox. and N.Z., Dip. Educ. Prof.
Campbell, J. T., Ph.D. Edin., M.A. Lectr.

Modern Languages

Boyd-Wilson, E. J., B.A. Camb., M.A., B.Sc. Dean and Prof.
Keys, A. C., D. de l'U. Paris., M.A. Lectr.

Philosophy and Psychology

Hunter, T. A., M.A., M.Sc. Prof.
Beaglehole, E., Ph.D. Lond., M.A. Lectr.
Hearnshaw, L. S., B.A. Lond., M.A. Ox. (Psychol.) Lectr.

Physics

Florance, D. C. H., M.A., M.Sc. [Prof.
Peddie, G. A., M.A. Lectr.

Political Science and Public Administration

Lipson, L. M., B.A. Ox., Ph.D. Chicago Prof.

..... Lectr.

Adult Education

Campbell, A. E., M.A. Acting Director.

Sarah Anne Rhodes Fellow

Johnson, A. Hazel.

GENERAL INFORMATION

Established by Act of the N.Z. Legislature, 1897, and affiliated to the Univ. of N.Z., 1899. Endowed by Govt. with 4000 acres. College buildings, towards which Govt. gave £31,000, were opened in 1906; additional wings for Library, etc., and for Physics erected 1921–22 at a cost of £50,000. Annual grants about £17,000.

Full DEGREE COURSES are provided in Arts, Science, Law, and Commerce (v. also p. 631), and the earlier stages in other Faculties.

CLASS FEES range between 3 and 8 guineas per annum for each subject.

RESEARCH SCHOLARSHIP. J. Joseph, two scholarships of £60 for 1 yr. for original work.

RESIDENCE. Weir House provides accommodation for about 90 men students.

PUBLICATIONS. *Calendar* (Feb.); Students' Magazine published towards end of each session.

THE YEAR 1938

STUDENTS (1938). Full-time: 178, including 8 graduates. Part-time: 918, including 70 graduates. Extra-mural: 293.

DEGREES OBTAINED (May 1938). B.A., 46; M.A., 24; B.Com., 17; M.Com., 5; LL.B., 18; LL.M., 4; B.Sc., 19; M.Sc., 11; Dip.Ed., 8; Dip. Journ., 3.

CANTERBURY AGRICULTURAL COLLEGE, LINCOLN

Founded 1896

DIRECTOR—Prof. E. R. HUDSON, B.Sc., B.Agr.Sc., Dip. C.A.C. (also Professor of Agriculture)

ASST. DIRECTOR—J. W. CALDER, M.Sc., B.Agr.Sc., Dip. C.A.C.

TEACHING STAFF

Lecturers

Agricultural Economics

Weston, I. W., M.Sc., Ph.D.

Animal Husbandry

Franklin, M. C., M.Sc., Ph.D. Camb., A.I.C.

Sidey, D. J., B.Agr., H.D.D., Dip. C.A.C.

McLean, J. W., M.Agr.Sc.

Agricultural Law

Wills, E. P., B.A., LL.M., M.Com.

Agriculture and Farm Management

Bevin, R., B.Agr.Sc., Dip. C.A.C.

Flay, A. H., B.Sc., M.Agr.Sc., Dip. C.A.C.

Engineering

James, R. L., B.Sc., A.A.S.E.

Entomology

Morrison, L., B.Sc. (Agr.) Aberd

Field Husbandry

Calder, J. W., M.Sc., B.Agr. Sc., Dip. C.A.C.

Blair, I. D., M.Agr.Sc.

Soils and Manures

Burns, M. M., M.Sc., Ph.D. Edin.

GENERAL INFORMATION

Canterbury Agricultural College, Lincoln, was founded by an ordinance of the former Provincial Government in 1870 and subsequently established by the Canterbury College and Canterbury Agricultural College Act of 1896, which placed the School of Agriculture under an entirely separate management. The new Board of Governors came into office on Jan. 1, 1897. In 1913 a university degree in agriculture was granted and the College was recognized as a School of Agriculture by the University of New Zealand. A series of amending Acts were passed between 1922 and 1927 and by the legislation passed in the latter year the College became a Constituent College of the University. By a further amending Act—the School of Agriculture Act, 1937—Canterbury Agricultural College and Massey Agricultural College were constituted a School of Agriculture in connexion with the Univ. of New Zealand and called the New Zealand School of Agriculture.

Diploma course (Dip. C.A.C.), 2 yrs., fees, 50 gs. p.a.; Diploma in Valuation and Farm Management, 1 yr., fees, 50 gs. p.a.; degree course, 4 yrs., fees, 55 gs. p.a.—all inclusive of board and tuition. Farm of 2000 acres. LABORATORIES: Biology, Chemistry. LIBRARY. The Wheat Research Institute (v. App. III. B. 3).

THE YEARS 1937, 1938

EXTRA-MURAL WORK. Lectures to Farmers' Unions, Teachers and Young Farmers' Clubs.

STUDENTS (1938). Degree, 13; Diploma, 40; Diploma in Farm Management and Valuation, 13.

DEGREES OBTAINED (1937). B.Agr.Sc., 4; M.Agr.Sc., 1.

MASSEY AGRICULTURAL COLLEGE, PALMERSTON NORTH

Founded 1926

PRINCIPAL—G. S. PEREN, C.G., B.S.A. Tor.
REGISTRAR—C. C. YATES.
LIBRARIAN—F. A. SANDALL, B.A., Dip.Ed.

TEACHING STAFF

Agr. Zoology
Dry, F. W., D.Sc. Leeds — Lectr.
Tetley, J. H., M.Agr.Sc. — Asst. Lectr.

Bacteriol. and Mycology
Waters, R. — Lectr.

Botany
Yeates, J. S., Ph.D. Camb. and N.Z., M.Sc. — Lectr.

Chemistry, Physical and Inorganic
Fife, C. V., M.Sc. — Asst. Lectr.

Dairy Bacteriol. and Dairy Chemistry
Sutton, W. G., M.Sc., A.I.C. — Lectr.
Sargent, J. D., M.Sc. — Asst. Lectr.*

Dairying
Riddet, W., B.Sc. (Agr.) Glas., N.D.A., N.D.D. — Logan Campbell Prof. of Agric.*
McMeekan, C. P., Ph.D. Camb., B.Agr.Sc. — Asst. Lectr.

Butter and Cheesemaking
Beatson, E. — Lectr.*
Jensen, T. M., B.Agr.Sc. — Asst. Lectr.
Sawyer, A. E. — Asst. Lectr.*
O'Dea, J. J. — Asst. Lectr.*

Economics
Low, H. B., M.A. — Lectr.

Field Husbandry and Sheep Management
The Principal—Walter Clarke Buchanan Prof. of Agric.
Morton, A. C. (Sheep Management) — Lectr.
Jacques, W. A., B.Sc. Wales, N.D.A. (Field Husbandry) — Lectr.
Clarke, E. A., B.Agr.Sc. (Sheep Management and Wool Classing) — Asst. Lectr.

Poultry Husbandry
Kissling, J. H. — Lectr.

Soil Chemistry — [Lectr.
Hudson, A. W., B.Agr., B.Sc.

Veterinary Pathology and Animal Physiology
Webster, W. M., B.Sc. Edin., M.R.C.V.S. — Lectr.

Research Staff

Animal Husbandry—Dairying—Prof. W. Riddet, B.Sc. (Agric.) Glas., N.D.A., N.D.D.; C. P. McMeekan, Ph.D. Camb., B.Agr.Sc. *Sheep Management*—Prof. G. S. Peren, B.S.A. Tor.; A. W. Hudson, B.Agr., B.Sc.; A. C.

* Joint member of the staffs of the College and Dairy Research Institute.

Morton; E. A. Clarke, B.Agr. Sc.; G. S. Wilson. *Animal Pathology*—W. M. Webster, B.Sc. Edin., M.R.C.V.S.; B. A. Reynolds; R. L. Hutchinson, M.Sc. *Plant Breeding*—W. A. Jacques, B.Sc. Wales, N.D.A.; R. E. Rose (seconded from Plant Research Bureau). *Wool*—Prof. G. S. Peren; F. W. Dry, D.Sc. Leeds (Biol.); R. Waters (Biol.). *Zoology (Parasitology)*—J. H. Tetley, M.Agr.Sc. *Field Drainage*—A. W. Hudson, B.Agr., B.Sc.; H. G. Hopewell, B.Agr.Sc. (seconded from Dept. of Agric.).

GENERAL INFORMATION

The College was estabd. under the New Zealand Agricultural College Act in Sept. 1926 as the result of an agreement between Victoria Univ. Coll., Wellington, and Auckland Univ. Coll. to amalgamate their respective Schools of Agric. and to establish the new Coll. in the Palmerston North-Marton area. On July 29, 1927, an amending statute, the Massey Agricultural College Act, was passed, and the Coll. finally estabd. under its present title. Under a further amending Act, the School of Agriculture Act, 1937, the Massey Agricultural College and the Canterbury Agricultural College were constituted a School of Agriculture in connexion with the University of New Zealand and called the New Zealand School of Agriculture.

The College Buildings consist of the Main Building, containing lecture rooms, teaching and research laboratories, library, assembly hall, studies, common rooms, etc.; the Administration Building; the Refectory and the Students' Residence.

The Coll. includes a modern dairy factory, with separate rooms for all dairy processes, etc., and equipped with small units of the latest designs of dairy factory machinery. The freehold farm is *c.* 960 acres in extent, with a wide range of soil types, and is devoted to sheep and dairy farming. A hill-country sheep farm of 1046 acres, situated eight miles from the College, was leased during 1938.

DEGREE COURSES, ETC. Courses are given for the B.Agr.Sc. and M.Agr.Sc. of the Univ. of N.Z. College Diploma courses in Dairy Manufactures and in Agriculture, College Certificate courses in Poultry Farming and in Wool Classing and short courses in Sheep Farming, Dairy Farming, Herd Testing and the Production and Distribution of Milk for City Supply, and a short Homemakers' course in Domestic Science, are also provided.

RESEARCH. The College is the major centre for research in wool problems (v. App. III. B. 3 for details of investigations). The Dairy Research Institute (N.Z.) is located at, and the Grasslands Division of the Plant Research Bureau (Dept. of Scientific and Industrial Research) is adjacent to, the College.

FEES. B.Agr.Sc. (including board), £55 p.a.; Research students, £10 p.a.; Farming Courses (including board), £65 p.a.; Dairy Manufactures, £10 per term; Herd Testing, £3 : 3s. per course; Wool Classing, £10 per course; short courses, up to £2 : 10s. per course.

SCHOLARSHIPS. Various Govt. and Univ. Scholps. are open to students.

THE YEAR 1938

BENEFACTIONS. Carnegie Corporation of New York, $500, being second of four annual grants for purchase of books for library.

LEGISLATION. School of Agriculture Act passed December 1937, constituting Massey Agricultural College and Canterbury Agricultural College a School of Agriculture in connexion with the Univ. of New Zealand and called the New Zealand School of Agriculture.

NEW PROPERTY. College leased a hill-country sheep farm of 1046 acres.

NEW COURSES. The following courses were offered for the first time: short course in Dairy Farming, refresher course for Agricultural Teachers and Instructors, short course in the Production, Treatment and Distribution of Milk for City Supply, short Homemakers' course in Dom. Sci.

STAFF ABSENT ABROAD FOR RESEARCH. C. P. McMeekan, B.Agr.Sc., Ph.D. Camb., Asst. Lectr. in Dairy Farming, continued study at School of Agriculture, Cambridge, obtaining Ph.D.

STUDENTS. Full time: 75, including 7 graduates. Part-time: 300 approx.

DEGREES OBTAINED. B.Agr.Sc., 10.

UNIVERSITIES OF THE UNION OF SOUTH AFRICA

CAPE TOWN — SOUTH AFRICA, PRETORIA
PRETORIA — STELLENBOSCH
THE WITWATERSRAND, JOHANNESBURG

HISTORICAL SUMMARY (originally contributed by Professor Ritchie of Cape Town and revised by Sir Carruthers Beattie, Vice-Chancellor of the University of Cape Town). The history of higher education in S. Africa covers but a comparatively short period of time. It may be said to have had its beginnings when, in 1829, the S. African College (now incorporated in the Univ. of Cape Town) was founded, as a proprietary institution, by a number of progressive citizens of Cape Town, assisted by subscribers from various parts of the country. This institution was, at its inception and for a long time afterwards, not much more than a higher-class school, but it had within it the possibilities of growth and started with very high aims. It had a very chequered history for some time, and was on more than one occasion in danger of extinction, but it gradually acquired a stronger position on ceasing to be a proprietary institution and receiving support from the public funds. For 20 years it remained the only educational establishment in S. Africa which aspired to anything beyond the range of elementary education, but in 1849 a rival College (the Diocesan) was started under the ægis of the Episcopalian Church at Rondebosch, a suburb of Cape Town. A few years later, in 1855, a somewhat similar College, St. Andrew's, was founded in Grahamstown, in the eastern part of the Cape Colony. Under the Governorship of Sir George Grey there was founded, in 1855, the Grey College at Bloemfontein in the Orange Free State, the first attempt at higher education beyond the borders of the then Cape Colony. None of these Colleges was well equipped, and most of the work done by them was school work rather than Univ. work, but they gradually acquired a growing influence and formed centres at which development was only a question of time. A very strong impetus in the direction of higher education was given in 1858 by the establishment of a Board of Examiners in Literature and Science. This Board had in view in the first instance the testing by means of examination of the competency of candidates for the Civil Service and public offices, but it soon extended its scope and started examinations on more distinctively Univ. lines, corresponding roughly to Matricn., B.A., and M.A. The competition between the existing Colleges caused by these examns. had undoubtedly a strong influence on the growth of these Colleges and the greater attention paid to subjects beyond the mere school range. This Board continued to exist until 1873, when a successful attempt was made to institute a Univ. for S. Africa. The Univ. of the Cape of Good

Hope, which was then founded, continued to exist until the beginning of 1918, when it was transformed into the Univ. of S. Africa, with its administrative seat at Pretoria. This Univ. was modelled on the lines of the London Univ., as then existing, as a purely examining body. It was governed by a Council, half of whose members were nominated by the Government, half elected by the members of Convocation. It had no constitutional connexion with the Colleges which prepared students for its examns., but the members of the Council who were elected by Convocation tended gradually to be almost entirely members of the teaching staffs of the various Colleges. In this indirect fashion the Colleges had a considerable influence on the development of the Univ. and the extension of the range and scope of its examns. Almost at the same time as the founding of the Univ. of the Cape of Good Hope there was passed by the Cape Parliament a Higher Education Act, which gave definite salary grants to the professors at recognized Colleges. This Act, together with the new impulse given to higher education by the new Univ., had a very marked influence on the development of the Colleges, which now began to increase in staff and numbers of students. The new College of Stellenbosch (afterwards the Victoria College and now the Univ. of Stellenbosch) was founded in 1874, and grew very rapidly, until it was a formidable rival of the older College at Cape Town. Other Colleges were founded also at Somerset East (Gill College) and Port Elizabeth (Grey Institute), but these had only a very short term of life. At a considerably later period, as S. Africa grew in population and wealth, other Colleges sprang into existence. A College for women (the Huguenot College) was founded at Wellington in 1898. In 1904 St. Andrew's College at Grahamstown separated its College department from its school, and the former became incorporated as the Rhodes College. In the same year a School of Mines which had been founded in 1896 at Kimberley was transferred to Johannesburg, and afterwards developed into a College for higher education generally, which is now the University of the Witwatersrand. In 1908 a Univ. College was founded at Pretoria, and in 1909 a similar College was instituted at Pietermaritzburg, Natal.

In 1904 there began a movement for the institution of a teaching, in place of the examining, Univ., and the controversy regarding the rival claims of a federal and a single-college Univ. continued for a number of years. An Inter-Colonial Conference on Univ. Education in 1908 reported in favour of a federal scheme, but nothing came of its decision. A new factor in favour of a teaching Univ. was introduced by the munificent gifts for this purpose of Mr. Alfred Beit, his brother, Mr. (now Sir) Otto Beit, and Sir Julius Wernher. In consequence of these gifts, various attempts were made by the Government to solve the knotty question of reconciling claims of the existing Colleges with the institution of one or more teaching Univs. A parliamentary committee deliberated on the subject in 1913, and a Commission was appointed in the same year and, after taking evidence, issued its report in 1914. This Commission proposed two Univs., one consisting of a federation of the S. African College and the Victoria College, the other of a federation of the remaining Colleges (Rhodes College being allowed

the choice of joining whichever federation it pleased), but the proposal led to no practical result, chiefly owing to the objection on the part of the two oldest and strongest Colleges, at Cape Town and Stellenbosch, to the loss of their independence. The problem was at length solved in 1916 by giving charters to both the S. African College and the Victoria College, and by the reincorporation of the old Univ. of the Cape of Good Hope as a federal Univ. embracing all the other Colleges under the name of the Univ. of S. Africa.

The three Acts passed by the Union of S. Africa in 1916 were to the following effect:

I. The Univ. of the Cape of Good Hope became the Univ. of South Africa, with its administrative seat at Pretoria.

II. The South African College became the Univ. of Cape Town, with which is incorporated the S. African College. Its seat is upon the Groote Schuur estate on the eastern slopes of Table Mountain.

III. The Victoria College, Stellenbosch, became the Univ. of Stellenbosch, with its seat in the division of Stellenbosch in the Province of the Cape of Good Hope.

The Faculties of the Univ. of Stellenbosch were specified originally as—Arts, Science, Education, Agric., Law, Theology, Commerce; of the Univ. of Cape Town as—Arts, Science, Medicine, Law, Engineering, Education, to which have been added subsequently Commerce, Music, Fine Art (and Architecture). Of the Univ. of South Africa the Faculties are not defined, but permission is given to each of the constituent Colleges to establish such faculties or depts. as it may deem fit; provided that it shall not, without the consent of the Govr.-General, apply towards the maintenance of a faculty or dept. not established at the commencement of this Act any money granted to the College from public funds. The three University Acts referred to above also made provision for the establishment of a Joint Matriculation Board and a Joint Committee for Professional Examinations, the functions of which are indicated below.

In 1922 the teaching institution at Potchefstroom was admitted as a constituent College of the University of South Africa under the name of the Potchefstroom University College.

In 1921 Parliament passed a further Act, which has the effect of incorporating, with effect from March 1, 1922, as "The University of the Witwatersrand, Johannesburg," the University College, Johannesburg (formerly the S. African School of Mines and Technology, and one of the constituent Colleges of the University of S. Africa). Its Faculties are defined as Arts, Science, Medicine, Law, Engineering, Commerce, and Dentistry.

In 1923 the South African Native College at Fort Hare, established primarily for the benefit of the native races of South Africa, was incorporated under the Higher Education Act of 1923.

In 1930 Parliament passed an Act incorporating the Transvaal University College, Pretoria, as "The University of Pretoria" as from 10th October 1930. Its faculties are specified as Arts, Science, Agriculture, Law, Theology, Commerce and Public Administration, Veterinary Science, Education, Music.

Each of the five Univs. is governed by Council, Senate, and Convocation. The Senate of the Univ. of South Africa consists of the Professors and Lecturers of the constituent Colleges who are heads of such departments as are recognized by the University Council; the Senates of the Univs. of Stellenbosch, the Witwatersrand, Pretoria, and Cape Town consist in each case of the Principal or Rector, the Vice-Chancellor, two additional members of the Council appointed for a prescribed period, and the Professors and, at Pretoria, Heads of Depts. At the Univ. of the Witwatersrand two Assessor members are elected annually by the Lecturers.

A word may be said here about these five Universities in general. The single college Universities and the individual University colleges are rapidly differentiating, some into institutions predominantly English speaking and others predominantly Afrikaans speaking. Every institution does what it can to advance the knowledge of the second language, Afrikaans or English as the case may be, and on the whole the Universities are helping the spread of bilingualism.

There are two Faculties of Medicine, one in Cape Town, the other in Johannesburg; three of Engineering, in Cape Town, Johannesburg, and Durban; two of Agriculture, at Pretoria and Stellenbosch; at Pretoria there is also a Veterinary Science faculty, and at Stellenbosch in 1932 a Forestry course was started; there are theological faculties at Stellenbosch and Pretoria.

The training of secondary teachers has been left to the Universities, and all the institutions endeavour to carry out this training. The training of primary teachers is to a much smaller extent provided for in the Universities, the main work in this instance being carried on in training colleges under the provincial Departments of Education.

Legal and commercial training is given in all the Universities, so is the teaching of the subjects usual in a Science and in an Arts Faculty.

Schools of African Life and Languages have been established at four of the Universities, and a considerable amount of valuable work has been done.

The Universities and University Colleges have together over 6000 students, almost entirely European. The coloured student is beginning to appear, but the native has so far found no place in South African Universities except as an external student. The South African Native College is not yet a constituent College of any of the Universities of South Africa, and students taught there take degrees externally.

SCHOLARSHIPS. Open to graduates of all South African Universities: 1851 Exhibition and Beit Fellowships, v. App. II. 17. H. B. Webb, maximum £300 p.a. for 2 yrs; Union, £225 for 2 yrs. Open to graduates of the Universities of Cape Town, South Africa and Stellenbosch: Croll Memorial, Porter, George Grey, Queen Victoria, Donald Currie; Ebden, £300 p.a. for 2 yrs. at Cambridge; W. Hiddingh, £266 p.a. for 3 yrs.; Maynard, £90 p.a. for 2 yrs.

Elsie Ballot Scholarships, £400 p.a. for 2-3 yrs., tenable at Cambridge; basis of selection as for Rhodes Scholarships. Further information

from the Joint Trustees (The Secretary, Ballot Scholarships, University Registry, Cambridge, and Barclay's Bank, D.C.O., (Trustee Department), Box 434, Pretoria).

For Rhodes Scholarships, see p. 278.

See also under the separate Universities.

TERMS. The academic year is usually divided into 4 terms, beginning in Feb. or March and ending Nov. or Dec. At Cape Town, Stellenbosch, Pretoria, and the Witwatersrand there are two Semesters or terms, beginning end of Feb. and end of July.

VICE-CHANCELLORS' COMMITTEE. The Vice-Chancellors of the Univs. acting as a Joint Committee (known as *The Vice-Chancellors' Committee*) have, in the exercise of powers conferred by the above-mentioned Acts, made joint statutes and regulations relating to the Joint Matricn. Board, the Joint Committee for Professional Examns., the administration of the Joint Scholarship Funds of the five Univs., the admission of registered students of any one of the Univs. to any of the others, and a minimum period of attendance and minimum fees for the Degree of Bachelor. They have power to formulate regulations dealing with any other matters of common interest. The Committee meets three times a year to deal with routine business such as the rotation between the five Univs. of postgraduate scholarships administered by the Committee and the conditions of award, etc.; the conditions and award of essay prizes, revision of joint-statutes, etc. In 1938 meetings were held at Cape Town in March and October and at Johannesburg in July. The Committee received applications and made the selections in 1935, 1936, 1937, and 1938 for two fellowships at the London Institute of Education provided by the Carnegie Corporation. Further awards of these fellowships will be made in 1939 and 1940. The address of the Secretary (who is also Registrar, Univ. of Cape Town) is P.O. Box 594, Cape Town.

CONFERENCE. Representatives of the Univs. and Univ. Colleges in South Africa met for the first time in conference in Cape Town in 1923 to discuss matters of common interest and to promote co-operation and mutual consultation. Similar meetings have since been held from time to time. Two conferences were summoned by the Minister of Education in 1931 and 1932 to consider respectively the Financial Control of the Universities and the questions of bilingual instruction and external degrees.

The JOINT MATRICULATION BOARD consists of representatives of the five Univs., the Departments of Education of the Union, the four Provinces, S. Rhodesia and S.W. Africa, and the Secondary Schools (public and private) of the four Provinces. Its function is to control and conduct the Matricn. Examn. of the five Univs., and to deal with all applications for exemption therefrom. Revised Regulations introduced Dec. 1931 require candidates to take: (i) One of the official langs. (Higher Grade); (ii) Latin or Greek or French or German, or the second official lang. (Higher or Ordinary Grade), or a Bantu lang.; (iii) a Science subject or Maths.; (iv) a subject chosen from (ii) not already taken,

or Maths. (if not taken under (iii), or Italian or Portuguese, or Spanish, or Hebrew, or History, or Geography, or History-and-Geography; (v) and (vi) any two subjects (not already taken) selected from the prescribed list of approved subjects, provided that not more than four languages are taken by any candidate. School-leaving certificates are also issued by the Board, the syllabuses and examn. papers being the same as for the matricn. examn., with a wider choice of subjects.

Examinations exempting (i) *wholly, or* (ii) *subject for subject, from the matriculation examination* of the South African Univs.: (i) Entrance examns. of Univs. recognized by the Joint Board, St. Andrews L.L.A., Teachers' First Class Certificate (S. Africa), Technische Hoogeschool of Delft Diploma examn., including Latin, French, or German, and, subject to certain conditions, Transvaal Secondary School Certif. (in or after 1921), Cape Province Senior Certif. (in or after 1923), National Senior Certif. of the Union Education Dept. (after 1931), O.F.S. School-leaving Certif. (after 1938).

(ii) Provided that candidates have passed, with at least 4 subjects chosen in accordance with the regulations for a matricn. certificate of the Board, an entrance examn. of any Univ. recognized by the Board, Senior Certificate of the Univ. of the Cape of Good Hope or School-leaving Certificate of the Board, Second Class Teachers' Certificate (Transvaal and Natal Province), Eindexamen in Holland of Gymnasium or Hogere Burgerschool, Diploma in Switzerland of "École Supérieure de Jeunes Filles," Abiturienten-examen or Maturitäts-Prüfung in Germany or Switzerland at a gymnasium, Hoofdakte-examen in Holland, any British Higher School Certificate, or School Certificate *with credit*. Dynamics of the Scottish Universities preliminary examn. and Mechanics of the Senior or School-leaving Certificate (S. Africa) are accepted in lieu of a matricn. science subject.

Non-matriculated candidates over the age of 25 who desire to proceed to a degree course or to some professional qualification and are not eligible for exemption under the ordinary regulations may, under certain conditions, be specially exempted from matricn. on the recommendation of the Univ. or other authority concerned.

The address of the Secretary (who is also Registrar of the Univ. of S.A.) is P.O. Box 392, Pretoria.

The JOINT COMMITTEE FOR PROFESSIONAL EXAMNS. (Address—P.O. Box 392, Pretoria), consisting of 2 representatives of each of the 5 Univs. (one for Law and one for Survey) and 5 persons appointed by the Govr.-General (of whom at least 2 must be for Law and 2 for Survey), controls and conducts: (1) Attorneys' Admission Examn., (2) Civil Service (Lower and Higher) Law Examns., (3) Examns. in Theory of Land Surveyng, and (4) Examn. for Patent Agents. It also conducts in certain cases on behalf of the Supreme Court the Advocates' Admission Examn. in Roman-Dutch Law and the Statute Law of the Union and the Supplementary Attorneys' Admission Examination.

UNIVERSITY OF CAPE TOWN

Founded 1918

Postal address—P.O. Box 594, Cape Town. *Telegrams*—University, Rondebosch.

VISITOR—H.E. THE GOVERNOR-GENERAL.

CHANCELLOR—General Rt. Hon. J. C. SMUTS, C.H., C. Lég. d'H., C.G., LL.D. Camb., F.R.S.

PRINCIPAL AND VICE-CHANCELLOR—Professor A. W. FALCONER, C.B.E., D.S.O., M.D. Aberd., M.R.C.P.

PRESIDENT OF CONVOCATION AND CHAIRMAN OF COUNCIL—E. BARNARD FULLER, B.A., M.B., C.M. Edin., F.R.C.S. Edin.

REGISTRAR—A. V. H. CARTER.

LIBRARIAN—Rev. G. F. PARKER.

TEACHING STAFF

Accounting and Business Method

Baxter, W. T., B.Com. Edin., C.A. Prof.
Small, L., B.Com. Manc. Lectr.
Delbridge, J. S., B.A., B.Com., C.A. (Acctg.) Lectr.
White, K., C.A. (Acctg.) Lectr.

African Studies

Schapera, I., Ph.D. Lond., M.A. (Soc. Anthropol.) Prof.
Lestrade, G. P., A.M. Harv., M.A. (Bantu Lang.) Prof.
Goodwin, A. J. H., M.A. Camb. (Ethnol. and Archæol.) Sr. Lectr.
Simons, H. J., M.A. S.A., Ph.D. Lond. (Native Admin.) Lectr.
van der Merwe, D. F., M.A. Pret. (Bantu Langs.) Lectr.
Bleek, Miss D. F. (Bushman Langs.) Hon. Reader.
2 Native Demrs. 1 Clerical Asst.

Anatomy

Drennan, M. R., M.A., M.B., Ch.B. Edin., F.R.C.S. Edin. Prof.
..... Lectr.
Gordon, W. L., O.B.E., M.D., F.R.C.S. Edin. (Applied Surg. A.) Lectr.
Goldberg, S., M.B., Ch.B. Jr. Lectr.
Wolff, R., B.Sc. Cape, M.R.C.S., L.R.C.P., L.D.S., D.P.H. Pt.-time Asst.
Cohen, S. M., M.A., L.R.C.P. Lond., F.R.C.S. Eng. (also Surg., Clin.). Pt.-time Asst.
1 Demr., 2 Technical Assts.

Architecture, v. Fine Art

Bacteriology

Campbell, W., M.B., Ch.B., B.Sc. Wernher and Beit Prof.
Skaife, S. H., M.A. Cape, Ph.D. Pt.-time Lectr.
Greenfield, Emily C., M.B., Ch.B., D.T.M. & H. Lond. Asst.
Don, Phyllis A., B.A., M.B., Ch.B. Asst.
1 Demr., 2 Laboratory Assts., 3 Technical Assts., 1 Clerical Asst.

Botany

Adamson, R. S., M.A. Camb., M.A., B.Sc. Edin. Harry Bolus Prof.
Compton, R. H., M.A. Camb. Harold Pearson Prof., Dir. of National Bot. Gardens.
Stephens, Miss E. L., B.A. Cape and Camb., F.L.S. Sr. Lectr.
Levyns, Mrs. M. R., B.A. Cape, D.Sc. Lectr.
Papenfuss, G. F., B.Sc. N. Carolina, Ph.D. J.Hop. Jr. Lectr.
Bolus, Mrs. F., B.A. Cape. Curator of Bolus Herbarium.
1 Demr., 1 Lab. Asst., 5 Assts. Bolus Herbarium.

Chemistry

Pugh, W., B.Sc. Lond., Ph.D., F.I.C. Prof. and Hd. of Dept.
Newbery, E., D.Sc. Manc., F.I.C. (Phys. C.) Mally Prof.
Carman, P. C., M.Sc. N.Z., Ph.D. Lond. Lectr.
Spong, A. H., M.Sc. Lond., Ph.D. Camb., A.I.C. Lectr.
Rapson, W. S., M.Sc. N.Z., D.Phil. Ox. Lectr.
Lamchen, M. Lectr.
2 Demrs., 3 Tech. Assts.

Classics

le Roux, T., M.A. Cape, Litt.D. Amst. (Gk.) Prof. and Head of Dept.
Rollo, W., M.A., D.Litt. Glas., Litt.D. Leiden Prof.
Baldry, H. C., M.A. Camb. Lectr.
Stevens, P. T., M.A. Ox. Lectr.

Commerce

Hutt, W. H., B.Com. Lond. Prof.
Kelly, T. H., M.Com., Ph.D. Birm. Senr. Lectr.
Thirlby, G. F., B.Com. Lond. Lectr.
1 Clerical Asst.

Economics

Leslie, R., M.A. Edin. Jagger Prof.
Robertson, H. M., M.A. Leeds, Ph.D. Camb. Sr. Lectr.
van der Horst, Miss S. T., M.A. Asst.
1 Demr.

Education

Scrimgeour, A. C. S., M.A. Edin. (Method) Prof.
Grant, W. F., B.Sc. Lond. (in English) Prof.
Burger, F. J., M.A., Ph.D. (in Afrikaans) Prof.
Pells, E. G., B.Sc., B.Litt. Ox., M.A., B.Ed. Sr. Lectr.

Lecturers

Louw, N. P. van W., M.A., B.Ed.
Murray, Miss M. I., B.A. Stell.
Cherry, Miss N., B.A., L.R.A.M. (Elocution).
Marais, Miss M. J., B.A.
Fehrsen, F. O., M.R.C.S., L.R.C.P., D.P.H. (School Hyg.)
2 Assts.

Engineering, v. *infra*

English

Doughty, O., M.A. Durh., B.Litt. Ox. (E. Lit.) Arderne Prof.
Mackie, W. S., M.A. Aberd., B.A. Ox. (E. Lang.) De Beers Prof. and Hd. of Dept.
Edwards, W. A., B.A. Camb. Sr. Lectr.
Cavers, Miss D. L., B.Litt. Ox., M.A., B.Ed. Lectr.
Lennox-Short, A., M.A. Junr. Lectr.
2 Demrs.

Ethics and Politics

Murray, A. H., M.A. Stell., B.Litt., D.Phil. Ox. Prof.
Versfeld, M., Ph.D. Edin., M.A. Lectr.

Fine Art

Roworth, E., Prof. and Dir. Michaelis School.
White, L. W. Thornton, F.R.I.B.A. (Archit.) Prof.
Harper, D. R. (Archit.) Studio Master.
Thatcher, P. Asst. and Keeper.
11 Assts., 2 Demrs., 1 Clerical Asst.

French

Inskip, D. P., M.A. Glas., L.-ès-L. Nancy Prof.
Hérisson, C. D., L. ès L., Paris Jnr. Lectr.
Christeller, Mlle. C., M.A. S.A. Asst.

Geography

Talbot, W. J., B.Sc. Lond. Prof.

Geology, v. Mineralogy

German

Rosteutscher, J. H. W., D.Phil. Breslau, Ph.D. Camb. Prof.
Prinz, J., Ph.D. Munich Hon. Reader.
Bodmer, F., Ph.D. Zürich Lectr.

Hebrew

Abrahams, I., M.A. Lond. Prof.

History

Mandelbrote, H. J., B.A. Ox., M.A., LL.B. King Geo. V. Prof.
Marais, J. S., B.A., D.Phil. Ox., M.A. Sr. Lectr.
Van der Poel, Miss J., Ph.D. Lond., M.A., B.Ed. Lectr.

Italian

Meiklejohn, M. F. M., B.A. Camb. Lectr.

Law [Prof.

Wille, G., B.A., LL.D. Camb., K.C.
Emmett, E., M.A., LL.B. Manc. Prof.
Wylie, J. K., M.A., LL.B., D.Litt. Edin., LL.B. Lond., LL.M. S. Afr. (Rom. L. and Juris.) W. P. Schreiner Prof.
Thompson, C. N., M.A. Cape, B.A., LL.B. Camb. Lectr.

Logic and Psychology

Reyburn, H., M.A., Ph.D. Glas. Prof.
Eales, W. C., B.A. Cape, M.A. S. Afr. (L. and Metaphys.) Sr. Lectr.
Taylor, J. G., M.A. Aberd. (Psychol.) Sr. Lectr.
Thompson, Miss E. M., B.A. S. Afr. (Psychol.) Lectr.
1 Asst.

Mathematics, Pure

Young, L. C., M.A. Camb. Prof.
Skewes, S., M.A. Camb., M.A., B.Sc. Sr. Lectr.
Wylie, Mrs. G. M. Kerr, B.A. Cape, M.A. S. Afr., B.A., Dip. Actuarial Sci. Edin. Lectr.
Gould, J. W., M.A. Jnr. Lectr.
Hochschild, G., M.Sc. Jnr. Lectr.

Mathematics, Applied

Brown, A., M.A. Edin. and Camb., B.Sc. Edin. Prof.
Pollard, M. J., M.A. Camb., B.Sc. Wales Sr. Lectr.
Tannenbaum, B., B.Sc. Witw. Jnr. Lectr.
1 Tech. Asst.

Mineralogy and Geology

Walker, F., M.A. Camb., Ph.D., D.Sc. Edin. Philipson-Stow Prof.
Walker, A. R. E., B.Sc. Lond., A.R.C.S. Lond. Sr. Lectr.
1 Demr., 1 Lab. Asst.

Music

..... Prof. and Dir. of Coll.
Peffers, Miss R., L.R.A.M., Dip. Dramatic Art, Lond. (Speech-training and Elocution) Lectr.
24 other staff.

Nederlands en Afrikaans

Bosman, D. B., M.A. Cape, Litt.D. Groningen (Lang.) Hofmeyer Prof.

van der Merwe, I. W., M.A. Lectr.
Bosman, F. C. L., Litt.D. Amst., M.A. Lectr.
du Plessis, I. D., M.A., B.Ed., Ph.D. Lectr.
Scholtz, J. du P., M.A. Stell., Litt.D. Amst. Lectr.

Philosophy, v. Logic and Psychology, and Ethics

Physics
James, R. W., B.A. Camb., B.Sc. Lond., F.I.P. Prof.
Grindley, E. N., M.Sc. Brist., Ph.D. Lectr.
Malan, D. J., D.Sc. Paris, M.Sc. Lectr.
Mohr, C. B. O., B.A., M.Sc. Melb., Ph.D. Camb. Lectr.
Gaskell, J. P., B.Sc. Liv., Jnr. Lectr.
4 Demrs., 2 Tech. Assts.

Physiology
..... Prof.
Zwarenstein, H. J., B.Sc., Ph.D. Manc., M.A., M.Sc. Sr. Lectr.
Ladell, W. S. S., B.A. Camb. Lectr.
1 Demr., 4 Tech. Assts.

Politics, v. Ethics

Social Science [Prof.
Batson, E., B.Sc. (Econ.) Lond.
Caspareuthus, Miss A. V., M.A., B.Ed. Tutor.
1 Clerical Asst.

Zoology
Stephenson, T. A., D.Sc. Wales Prof.
Day, J. H. O., Ph.D. Lond., B.Sc. S.A. Lectr.
Sandon, H., M.A. Camb., Ph.D. Rutgers Lectr.
De Jager, Miss E. F. J., M.Sc. Stell. Lectr.
Broekhuysen, G. J., Ph.D. Leiden Jnr. Lectr.
1 Demr., 1 Museum Asst., 1 Lab. Asst.

Engineering

v. also Maths. *supra*

Civil Engineering
Snape, A. E., M.Sc. Manc., M.I.C.E., F.R.San.I. Corporation Prof.
Stewart, G., M.R.San.I. Sr. Lectr.
Gilmore, J. A., B.Sc., M.A. Lectr.
Ockleston, A. J., B.E. N.Z., Ph.D. Lond. Lectr.
Halstead, S., B.Sc. Lond. Jnr. Lectr.
1 Tech. Asst., 1 Clerical Asst. (also Elec. and Mech. Eng.).

Electrical Engineering
Goodlet, B. L., B.A. Camb., M.Amer.I.E.E. Corporation Prof
Roberts, N. H., B.A. Camb., M.Sc. S.A. Sr. Lectr.
Guelke, R., Ph.D. Gott., F.Inst.P. Lectr.
Einhorn, H., Dr.Ing. Berlin Jnr. Lectr.
1 Tech. Asst.

Land Surveying
Whittingdale, D. Reader.
Biesheuvel, H., B.Sc. Lectr.
Menzies, G. H., B.Sc. Lectr.
3 Assts.

Mechanical Engineering
McMillan, D., M.C., M.I.Mech.E., M.I.A.E. Prof.
Weaver, W. G., M.I.Mech.E., M.I.Chem.E. Sr. Lectr.
Elliott, G. G., B.Sc. Lectr.
Hoxey, S. C., M.Sc. Lond. Lectr.
Sacks, E., Dip.Eng. Darmstadt Asst.
1 Tech. Asst.

Medicine

(for subjects of the first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Forbes, A. Gordon, M.C., M.B., Ch.B. Edin. Lectr.
Muir, R. M., M.B., Ch.B. Edin. Hon. Lectr.

Clin. Instructors
Berelowitz, H., M.B., Ch.B.
van Hoogstraten, E. G., B.A., M.B., Ch.B.

Dermatology
Bosman, H. M., M.R.C.S., L.R.C.P. Lectr.
Krone, F., M.D. Edin. Asst. Clin. Lectr.

Diseases of Children [Lectr.
Leipoldt, C. L., L.R.C.P., F.R.C.S.

Asst. Clin. Lecturers
Dunn, D., M.D. Edin., M.R.C.P.
Rabkin, W., M.B., Ch.B. Edin.

Ear, Nose, and Throat
Lückhoff, J., M.D. Edin. Lectr.

Asst. Clin. Lecturers
Scott, R. L., M.B., Ch.B., F.R.C.S. Edin.
Smuts, Ph. A., B.A. Cape, F.R.C.S. Edin., M.R.C.S., L.R.C.P.

Forensic Medicine [Prof.
Rhodes, W. F., B.A. Camb., M.R.C.S., L R.C.P., D.P.H.
Turner, R., M.B., Ch.B. Lectr.
Murray, C. A. M., B.Sc., M.B., Ch.B. Wit. Lectr.
Gordon, I., M.B., Ch.B. Lectr.

Gynæcology, v. Obstetrics and Gyn.

Infectious Diseases [Lectr.
Wicht, J. F., M.D. Dub., D.P.H.

Leprosy
Med. Supt. Lep. Inst. Pretoria Lectr.

Medical Ethics
Elliott, C. C., B.A., M.D. Lectr.

Medicine
Brock, J. F., M.A., B.Ch., D.M. Ox., M.R.C.S., L.R.C.P. Prof.

Medicine, Clinical
Forman, F., B.A. Cape, M.B., Ch.B. Aberd. Prof.
Marais, D. P., M.D., F.R.C.P. Edin. Lectr.
Keet, P. W. J., M.B., Ch.B., M.R.C.P. Edin. Lectr.
2 Assts.

Medicine, Psychological
Key, G. J., M.B., Ch.B. Aberd. Lectr.
Kooy, F. H., M.D. Gron., M.R.C.S., L.R.C.P. Lectr.
2 Clin. Tutors.

Methods of General Medical Practice
Bremer, K., M.B., B.S. Lond. Lectr.

Obstetrics and Gynæcology
Crichton, E. C., B.A., M.D., B.A.O., B.Ch., L.M. Dub., F.C.O.G. Prof.
Wells, A. Simpson, M.A., M.D. Glas., F.R.C.S. Edin. (Obstet.) Lectr.

Obstetrics and Gynæc., Clinical
Charnock, F. S., M.B., Ch.B. Manc., M.R.C.S., L.R.C.P. (Obstet.) Lectr.
Impey, R. L., M.C., M.D., F.R.C.S. Ed., F.C.O.G. (Gynæc.) Lectr.
Sharp, C. W. C., L.R.C.P., F.R.C.S. Edin., L.F.P.S. Glas. (Obstet.) Lectr.
Naudé, F. K. te W., M.D. Utrecht (Gynæc.) Asst. Lectr.
Goldberg, A. J., M.B., Ch.B., L.R.C.P. Edin., M.C.O.G. (Obstet. & Gyn.) Tutor.
van Heerden, Miss P., M.D. Amst., M R.C.S., L.R.C.P. (Gynæc.) Tutor.
Massey, Miss J. H., M.B., Ch.B., M.C.O.G. Asst.

Ophthalmology
du Toit, J. S., M.D., F.R.C.S. Edin. Lectr.
Sichel, A. W. S., B.A. Cape, M.D. Edin., D.O. Ox., D.O.M.S. Lond. Lectr.

Orthopædics

Roux, P., M.Ch. Orth. Liv., M.B., Ch.B., F.R.C.S. Edin. Lectr.

Orthopædics, Clinical

Bell, H., M.B., B.Ch. Belfast, M.Ch.Orth. Liv., F.R.C.S. Edin. Asst. Lectr.

Pathology

Ryrie, B. J., M.B., Ch.B. Edin. Wernher and Beit Prof.
Cowie, Mrs. Dorothy G., M.B., Ch.B. Asst.
Linder, G. C., M.D., M.R.C.P. (Pathol. Chemistry) Asst.
van den Ende, M., M.B., Ch.B. Jnr. Asst.
Selzer, Miss G., M.B., Ch.B. Museum Curator.
4 Tech. Assts., 1 Cler. Asst.

Pharmacology

Gunn, J. W. C., M.A., M.B., Ch.B. Edin. Wernher and Beit Prof.
Sapeika, N., B.A., M.B., Ch.B. Asst.
1 Tech. Asst.

Public Health

Higgins, T. S., B.Sc., M.D., B.S. Lond., D.P.H. Camb. Prof.
4 Assts.

Radiology

van Roojen, J., M.D. Amst., M.R.C.S., L.R.C.P., D.M.R.E. Camb. Lectr.
1 Clerical Asst.

Surgery

Saint, C. F. M., C.B.E., M.D., M.S. Durh., F.R.C.S. Prof.
Petersen, N., M.B., B.S. Lond., F.R.C.S. Edin. Lectr.
1 Tech. Asst.

Surgery, Clinical

Gordon, W. L. (also Anat.) Lectr.
Sandes, T. L., O.B.E., M.A., M.D. Dub., F.R.C.S. Eng. and Irel. Lectr.
Goldschmidt, L. B., B.A., M.B., B.S. Lond., F.R.C.S. (Urol.) Lectr.
Sacks, I. G., B.A., M.B., B.Ch. Dub., F.R.C.S. Eng. Asst. Lectr.
Rous, M. C., M.B., Ch.B., F.R.C.S. Eng. Asst. Lectr.
Frater, K., M.S. Minn., B.A., M.B., Ch.B. (Urol.) Asst. Lectr.
Cohen, S. M. (also Anat.) Tutor.
Forsyth, R. L., B.A., M.B., B.Ch., B.A.O. Dub., F.R.C.S.I. Tutor.
Schrire, T., M.B., Ch.B., F.R.C.S. Tutor.

Surgery, Dental

Wolff, H., L.D.S. Lectr.
Rosenblatt, W., L.D.S. Lectr.

Vaccination

Louw, A., M.B., Ch.B. Edin. Lectr.

Venereal Diseases

O'Malley, C. K., M.C., M.B., B.A.O., M.S.N.U.I., D.M.R.E. Camb. Lectr.

GENERAL INFORMATION

The University of Cape Town, with which is incorporated the South African College, created by Act 14 of 1916, came into legal existence on April 2, 1918, when the Council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Sir Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit. For early history, see *Yearbook* for 1930 and Introductory Chapter above.

A site for the University was provided by Government at Groote Schuur, Rondebosch. An appeal for funds in commemoration of the centenary of the S.A. College in 1929 realised over £70,000.

LIBRARY, 30,000 vols. Access to S.A. Public Library, 100,000 vols., specially well equipped in Bot. and Zool. Depts. Also Bolus Bot. Library and (for students of Teaching) the Library of the Educn. Dept. The Bolus HERBARIUM includes Guthrie Collection of Cape Flora. MARINE BIOL. LABORATORY at St. James'.

FACULTIES. Arts, Commerce, Science, Engineering, Law, Medicine, Education, Music, and Fine Arts.

DEGREE COURSES. B.A., 3 yrs.; B.A. (Soc. Sc.), 3 yrs.; B.A. (in Architecture), 5 yrs.; B.A. (in Fine Art), 4 yrs.; B.Sc. (in Pure Sc.), 3 yrs.; B.Sc. (in Applied Sc.), 4 yrs.; B.Sc. (in Engineering), 4 yrs.; B.Sc. (in Land Surveying), 4 yrs.; B.Sc. (Quantity Surveying), 5 yrs.; B.Com., 3 yrs.; LL.B., 5 yrs.; B.Mus., 4 yrs.; M.B., Ch.B., 6 yrs. Higher degrees: M.A., 1 yr.; M.Sc., 1 yr.; M.Com., 1 yr.; B.Ed., 2 yrs. after B.A.; M.Ed., 2 yrs.; M.A. (Architecture), 1 yr.; M.A. (Fine Art), 1 yr.; M.A. (Soc. Sc.), 1 yr. The M.A., M.Sc., and M.Com. courses are open to graduates of any approved Univ.; so also are courses for the Ph.D. (open to bachelors of at least 3 yrs.' standing), and D.Litt., D.Sc. (open to bachelors of at least 5 yrs.' standing), for which attendance for 2 yrs. may be required. The M.Com. is open to B.Com. of 3 yrs.' standing. The LL.M. is open to LL.B. of 2 yrs.' standing; the LL.D. is open to LL.B. or LL.M. The M.Sc. in Engineering is restricted to graduates in engineering of the Univ. (2 yrs.' standing).

DIPLOMA COURSES. 1 yr.—African Studies (lower diploma), Analytical Chemistry, Bacteriology, Native Education, Nursing, Public Health (post-graduate); 2 yrs.—African Studies (higher diploma), Social Sciences; 3 yrs.—Commerce, Fine Art, Music, Speech Training and Elocution; 5 yrs.—Architecture.

CERTIFICATE COURSES. 1 yr. post-graduate—Secondary Teacher's; 3 yrs.—Ceramics, Commercial Art, Fine Art, Higher Primary Teacher's, Music, Speech Training.

OTHER COURSES. Classes for Lower Law Certificate Examn. and Civil Service Lower Law Examn. and for students in Agric. and Theol. proposing to graduate in those subjects elsewhere.

RECOGNITION OF AND BY OTHER INSTITUTIONS. Attendance at the Univs. of Stellenbosch, Witwatersrand, Pretoria, and the constituent Colls. of the Univ. of S. Africa is accepted under certain conditions as part of the attendance qualifying for degrees. Attendance on classes in Physics, Chem., Bot., and Zool. is accepted by Aberd., Bris., Durh., Edin., Glas., Liv., Manc., Dub., R.C.P. Lond., R.C.S. Eng.; so also are examns. in the Faculty of Arts on the special courses in these subjects (except by Dub.). Attendance on courses in Anat. and Physiol. is accepted by Aberd., Durh., Edin., and Glas., R.C.P. Lond., and R.C.S. Eng.; examns. in the Faculty of Arts in these subjects are accepted by Aberd. The Dentistry course is recognized by the R.C.S. Eng., R.C.P.S. Edin., and Edin. Dental School; the Hygiene course by the Conjoint Boards of Eng., Eire, Edin., and Glas.

FEES. The annual academic fee is fixed so as to cover all charges for a student's registration, classes and laboratories, ordinary Univ. examns., graduation, library, athletics, Students' Societies, and, in the case of medical students, hospital fees for clinical instruction. The annual fee varies according to the course which is being taken, but is uniform throughout the normal duration of the course. B.A. and B.A. (Soc.Sc.), £38; B.Sc., £45; B.Sc.Eng., £50; B.A.Arch. and B.Sc. (Quantity Surveying), £40 for 4 yrs. and £20 for 1 yr.; B.Ed., £35; LL.B., £50; M.B., Ch.B., £55; B.Mus., £40. Master's degree:

Arts £32, Science £38, Education £30, Architecture and Fine Art £18, Engineering, Law, and Medicine £10. Doctor's degree £16.

SCHOLARSHIPS FOR GRADUATES. Jamison, £225 p.a. for 2 yrs.; S.A.C. Croll, £300 p.a. for 2 yrs.; Smartt Memorial (in Agric.), £200 p.a. for 2 or 3 yrs.; 2 in Engin., £150 p.a. for 2 yrs.; 1 in Med., £150 p.a., tenable for 1 yr. overseas. *v.* also Introductory Chapter.

A Jagger Scholarship of the annual value of £200 tenable for 3 (or possibly 4) years subject to satisfactory conduct and progress, offered to a student from Gt. Britain proposing to take his degree at the Univ. of Cape Town.

For open post-graduate scholarships, *see* Appendix II. 23.

TRAVELLING CONCESSIONS. On production of a certificate signed by the registrar, all full-time students may travel by rail under certain conditions at *reduced fares*—viz., the concession is only allowed on return tickets via the most convenient direct all-rail route from home to the Univ. and back; it does not apply to married persons, or to students attending classes for the law certif. and civil service law examns. Students who have obtained a degree are not eligible for season tickets at concession rates for daily travel.

The Union-Castle Steamship Co. gives concessions to students travelling coastwise between ports from Cape Town to Mombasa, inclusive (applicable only to whole-time scholars and students who have not graduated and who are not married): (*a*) Students travelling from home to school or univ. or *vice versa*: *Single tickets* at single fare, according to age, less 10 per cent. *Return tickets* at the single adult fare, plus 10 per cent. The period of availability may be extended to 12 months on application. (*b*) All other students: *Return tickets* will be granted at excursion rates, available for period of vacation.

Certificates must include age, home address, and, when on vacation, the period of such vacation.

The Union-Castle Co. and other Steamship Cos. grant a 10 per cent reduction on the ordinary fare to students proceeding overseas on vacation or for further study.

APPOINTMENTS COMMITTEE. Hon. Secretary, E. G. Pells.

RESIDENCE. Hostels for 300 men and 200 women. Board, laundry, and residence, £68-£78 p.a.

PUBLICATIONS. *Calendar* (Dec.); Students' Repve. Council's *Groote Schuur*; *Annals of the Bolus Herbarium*; *The History of South African College, 1829–1918*, by Prof. W. Ritchie (2 vols.; Maskew Miller, Cape Town); *The S.A. College and the University of Cape Town, 1829–1929*, by Prof. E. A. Walker.

THE YEAR 1937

INSTALLATION OF CHANCELLOR. General the Rt. Hon. J. C. Smuts was formally installed as Chancellor on opening day of session, and delivered an address on "The University in Civic Training."

PRINCIPAL AND VICE-CHANCELLOR. Dr. A. W. Falconer, Prof. of Medicine, was apptd. Principal and Vice-Chancellor as from 1st Feb. 1938, in succession to Sir Carruthers Beattie. First as Prof. of Physics, and then as Principal since 1917 and Vice-Chancellor since 1918, Sir Carruthers has served the institution with conspicuous ability for over forty yrs., and his influence has been felt in every dept. of its life and work.

BENEFACTIONS. The late Edith Frances Mary Struben, £3000 in trust for establishment of a schol. (open to girls only) for painting, sculpture or archi-

tecture. The late Margaret Creighton MacIver, residue of estate for establishment of schols. for women, preferably in fine art or dom. sci. It is expected that interest will be not less than £300 p.a. The late W. B. Eigemann, £500 for promotion of higher educ. in such manner as Univ. Council may decide. This sum has been utilised for endowment of an entrance schol. of £20 p.a. Mr. and Mrs. J. W. Griffiths (through Professor J. Smeath Thomas), £200 for stained-glass window in dining-room of Men's Residence. Mr. F. K. Wiener (through S.A.C. and U.C.T. Past Students' Union), portrait of Sir J. Carruthers Beattie, by J. L. Wheatley, to be hung in College House. Earl and Countess of Clarendon (through the Mayor of Cape Town), £615 : 3 : 1 for schol. for non-European students (balance of fund raised by public subscription prior to departure of their Excellencies from S.A.). Deciduous Fruit Exchange, £500 for research on fruit-growing. South African Fine Arts Association, £30 p.a. for schol. at Michaelis School of Fine Art. The Univ. will participate in benefits from Lord Nuffield Trust for provision of demonstratorships and clinical assistantships at Oxford Univ. Medical School.

NEW BUILDINGS, ETC. A new building for the Bolus Herbarium and Library adjoining the Botany Building ; a new storey for the Geology Building to house the Dept. of Geog. ; two large new Recreation Halls for Otto Beit Students' Union.

University House in Government Avenue, opened as a residence for men students in 1919, was closed at end of yr. and disposed of by public sale.

JUBILEE OF COLLEGE HOUSE. College House, first official students' residence in S.A., opened in 1887, celebrated its Jubilee in July.

NEW POSTS. Chairs of Clinical Medicine and Accounting (full-time instead of part-time), and lectureships in Engin. (3), Land Surveying, and Zool. Dr. I. Donen appointed for period of 3 yrs. to post of Technical Research Officer created specially for purpose of controlling and correlating investigations into problems of fruit-growing.

ADDITIONAL FACULTIES, DEPARTMENTS, ETC. Institution of parallel classes in Afrikaans in subjects for M.B., Ch.B., which had been long contemplated, finally determined upon, and provision made for addnl. appts. required for duplication of 1st yr. courses in 1938. Alternative 1st qualifying B.A. course in English for students who desire to include this subject in their degree curriculum without continuing study beyond 1st yr. stage ; tutorial conversational classes in Afrikaans, particularly for benefit of Soc. Sci. students, instituted. Evening classes instituted in drawing and painting, in dramatic art and in ballet. New degree and diploma courses include M.A. in Soc. Sci., and Dipls. in Native Educ. and Nursing.

Vacation courses for social workers given in collaboration with Univ. of Stellenbosch and National Council for Child Welfare. Courses comprised lectures on modern poverty and future policies, group discussions and controlled visits of observation.

PUBLIC LECTURES. University Extension Lectures (4 on each subject), given by Prof. E. Batson (Population Management with special reference to South Africa), A. J. H. Goodwin (Recent Developments in Prehistoric Archæology), Prof. W. Rollo (Modern Problems in the Ancient World), and Prof. W. J. Talbot (The Regional Setting : Aspects of its Relationship to Human Activities). Public lectures arranged by Michaelis School of Fine Art given by I. Mitford Barberton (Modern Sculpture), E. Roworth (Implications of Modern Art), and Prof. L. W. Thornton White (Modern Architecture : Why ? and How ?). Series of 6 lectures on History of Dutch Republic, given by

Prof, P. Geijl (Utrecht), who visited S.A. at invitation of S.A. Univs. Lectureship Ctee.

RESIGNATION. Prof. J. Smeath Thomas (Chem.), on appt. as Master of Rhodes Univ. College.

Dr. C. E. Lewis resigned chairmanship and membership of Univ. Council in August, thus terminating a connexion with Coll. and Univ. as student, prof. and member of Senate and Council which began in 1868 and continued with hardly a break for remarkable period of 70 yrs. Dr. E. Barnard Fuller elected chairman from Sept. 1st, for unexpired term of office of Dr. Lewis.

STUDENTS. Full-time, 1733, including 140 graduates; part-time, 298, including 43 graduates. Total number of individual students enrolled during yr., 2322.

DEGREES. B.A., 77; M.A., 8; Ph.D., 5; LL.B., 9; LL.M., 1; B.Sc. (Pure Science), 24; M.Sc., 5; M.B., Ch.B., 57; B.Sc. (Engineering), 24; B.Sc. (Applied and Industrial Chemistry), 3; B.Sc. (Land Surveying), 5; B.Ed., 5; M.Ed., 1; B.A., in Social Science, 4; B.Com., 19; B.A., in Architecture, 2; B.A., in Fine Art, 2; M.A. (Fine Art), 1.

DIPLOMAS AND CERTIFICATES. Diplomas: Speech Training, 7; Architecture, 9; Fine Art, 1; Public Health, 7; Analytical Chemistry, 2; Social Science, 1. Certificates: Secondary Teachers' (including B.Ed.), 28; Higher Primary Teachers' (including postgrad. certif.), 10; Commercial Art, 2; Music, 2; Fine Art, 1; Licentiate in Music, 5.

UNIVERSITY OF SOUTH AFRICA

Founded 1873

Address—P.O. Box 392, Pretoria.

CHANCELLOR—Field-Marshal H.R.H. THE DUKE OF CONNAUGHT AND STRATHEARN, K.G., K.T., K.P.

VICE-CHANCELLOR AND CHAIRMAN OF COUNCIL—Rt. Hon. Senator F. S. MALAN, B.A. Cape, LL.D.

CHAIRMAN OF THE SENATE—Professor T. F. DREYER, M.A. Cape, Dr.phil. Halle.

PRESIDENT OF CONVOCATION—.....

REGISTRAR—LANGHAM MURRAY, M.A. Ox.

CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF THE O.F.S. (formerly Grey University College), Bloemfontein (1855).

HUGUENOT UNIVERSITY COLLEGE, Wellington (1874).

NATAL UNIVERSITY COLLEGE, Pietermaritzburg and Durban (1909).

POTCHEFSTROOM UNIVERSITY COLLEGE for Christian Higher Education, Potchefstroom (1905).

RHODES UNIVERSITY COLLEGE, Grahamstown (1855).

GENERAL INFORMATION

By Act 12 of 1916 of the Legislature of the Union of South Africa the University of the Cape of Good Hope, incorporated by Act of the Cape Legislature in 1873, became and was incorporated in the University of South Africa, with administrative seat at Pretoria. *See* Introductory Chapter above.

FACULTIES: Arts (including Fine Arts, Divinity, and Music), Education, Science, Engineering, Law, Commerce and Administration.

DEGREES. B.D., M.Div., D.D.; B.A., M.A., M.Ed., D.Litt., D.Phil.; B.Mus., D.Mus.; B.Com., M.Com.; B.Econ., M.Econ.; B.Sc., M.Sc., Ph.D. in Sci., D.Sc., B.Sc., M.Sc., Ph.D. and D.Sc. in Engin.; LL.B., LL.M., LL.D.

Courses for B.A., B.Com., B.Econ., B.Sc., B.Sc. (Dom. Sci.)—3 yrs.; B.Mus., B.A. (Fine Arts), B.Sc. (Eng.)—4 yrs.; LL.B.—3 yrs., after graduating in some faculty other than Law. *Internal* candidates for these degrees must have attended as registered matriculated students at a Constituent Coll. for the prescribed periods, provided that the Senate will accept, as qualifying, attendance on recognized courses at any of the other South African Univs. and may accept attendance and examns. at other recognized Univs. or at other institutions specially recognized by the Senate for the purpose. But the minimum attendance at approved courses at the Univ. of S.A. for the Bachelor's degree in Applied Science is the final 2 yrs., and for other Bachelor's degrees at least one-half of the courses prescribed. *External* students must

have their curricula approved by the Senate and must pass the examns. prescribed for them from year to year by the Senate in order to qualify for degrees.

The M.A., M.Sc., M.Com., and M.Econ. courses each cover 1 yr. after the Bachelor's degree ; the M.Ed. and M.Div. 2 yrs. The M.Sc. (Engin.) may be conferred on a B.Sc. (Engin.) who has had, since graduating, 2 yrs.' practice of his profession. A thesis is required for the LL.M. or M.Sc. (Engin.). Doctorates (except Ph.D.) are granted for approved theses to Bachelors of at least 5 yrs.' or Masters of at least 4 yrs.' standing (reducible to 4 and 3 respectively in consideration of attendance for one year as a research student at an approved institution). For the Ph.D. degree the periods are 3 yrs. and 2 yrs. The Master's and Doctor's degrees may also be conferred *honoris causa*.

Research (Bachelor) Degrees. On proof of special qualifications in any direction a person may be exempted from the matricn. examn. and admitted to courses of special study and research with a view to graduation, the conditions being determined by Boards of Faculty, subject to approval of Senate.

Diplomas : in Education—1 yr. course ; in Bantu Studies (Lower, 2 yrs., Higher, 1 yr.).

SCHOLARSHIPS FOR GRADUATES. Queen Victoria Memorial (women only) and Hiddingh-Currie, each £200 p.a. for 3 yrs. Ten Bursaries £60-£80, for Bachelors proceeding to M.A. *v.* Introductory Chapter.

SCHOOL AND MUSIC EXAMNS. The Univ. controls and conducts a *Junior Certificate* examn. of standard 2 yrs. below matricn., and examns. for Music Certifs. and Licentiate Diplomas (for Teachers of Music and Solo Performers).

PUBLICATION. *Calendar* (January).

THE YEAR 1937

HONORARY DEGREES. *D.Litt.*—Rev. Paul Erdmann Schwellnus, Berlin Mission. *LL.D.*—Hon. Pieter Gert Wessel Grobler, Minister of Lands.

STUDENTS. Full-time : 1816, including 374 graduates. External and part-time : 2067, including 142 graduates.

DEGREES. B.D., 3 ; B.A., 291 ; B.A. (Fine Arts), 6 ; M.A., 38 ; D.Litt., 1 ; D.Phil., 2 ; LL.B., 17 ; B.Sc., 83 ; B.Sc. (Dom. Sci.), 1 ; M.Sc., 6 ; Ph.D. (Sci.), 2 ; D.Sc., 1 ; B.Sc. (Eng.), 13 ; M.Ed., 9 ; B.Com., 30 ; B.Econ., 8 ; M.Com., 3 ; D.V.Sc., 2.

UNIVERSITY COLLEGE OF THE ORANGE FREE STATE

(*Formerly* GREY UNIVERSITY COLLEGE)

BLOEMFONTEIN, O.F.S.

Founded 1855

CHAIRMAN OF COUNCIL—S. H. PELLISSIER, B.A. Cape.

VICE-CHAIRMAN—J. C. PRETORIUS, M.D. Dublin.

RECTOR—R. B. SAAYMAN, B.A. Cape.

ASSISTANT REGISTRAR—J. B. THOM, B.A. Stell.

LIBRARIAN—Emer. Prof. A. FRANCKEN, B.A. Cape.

TEACHING STAFF

Accounting and Auditing

Harrison, L., C.A. S.A., A.S.A.A. Lectr.

Afrikaans and Dutch

Malherbe, D. F., B.A. Cape, Dr.phil. Freib. i. Br. Prof.

Scholtz, H. v. d. M., M.A. Stell., D.Litt. Utrecht (Dutch) Prof.

Conradie, Miss E. J., D.Litt. Amsterdam, M.A. Lectr.

Botany

Lütjeharms, W. J., Dr. Wisen Natuurkunde Leid. Prof.

Gemmell, Miss D. M., M.Sc. Asst.

Chemistry

Rindl, M., Dr.ing. Charl. (Organ. and Genl.) Prof.

Zweerts, F., Chem. Ingr. Delft (Phys. and Appl.) Lectr.

Sapiro, M. L., M.Sc. Asst.

Classics

Ross, J. A., M.A. Cape. Prof.

Steven, S. J., H., B.A. Ox. M.A. Cape T. Lectr.

Commerce and Economic Geography

Fourie, F. C. v. N., B.A., B.Com. Cape T. Lectr.

Economics

Fourie, I. S., B.A. S.A. and Ox. Prof.

English

Hopwood, D. P., M.A. Ox., Litt.D. Stell. Prof.

Mackenzie, B. A., M.A., D.Litt. Cape T., B.Litt. Ox. Lectr.

Geology and Geography

Von Bonde, W., M.A., D.Sc. Cape, F.G.S. Prof.

Maartens, Miss M. J., M.Sc. Lectr.

le Page, M. H. C., B.Sc. Asst.

German and French

Dekker, J. J., M.A., Dr.phil. Vienna Prof.

Hebrew

Block, M., Dr.phil. Zürich Lectr.

History

Barnard, S. P., L.N.C. Gron., Litt. Docts. Leiden Prof.

Law

Brink, C. P., B.A., LL.B. Cape Lectr.

Smit, A. J., B.A., LL.B. Lectr.
de Villiers, W., LL.D. Leid. Lectr.
Grobler, N. J., B.A. S.A. and Ox., LL.B. Lectr.
de Villiers, J. N. C., B.A., LL.B. Lectr.

Mathematics (Pure and Applied)

Arndt, W. F. C., B.A. Cape, Dr.phil. Gött. Prof.
Arndt, J. G. A., M.Sc., Dr.phil. Gött. (Applied M.) Lectr.

Pedagogy

Eybers, E., M.A. Edin., Ph.D. New York Prof.
Keyter, J. de W., M.A., B.Ed. Stell., Dr.phil. Mun. Lectr.

Philosophy, Politics and Sociology

Diederichs, N., M.A., D.Litt. et Phil. Leid. Prof.
Keyter, J. de W., M.A., B.Ed. Stell., Dr.phil. Mun. Lectr.

Physics

Logeman, W. H., M.A. Cape Prof.
v. d. Bijl, J., M.Sc. Stell., A.M. Harv. Asst.

Psychology

Schmidt, C. H., M.A. Stell., B.Litt. Ox. Prof.

Zoology and Archæology

Dreyer, T. F., M.A. Cape, Dr.phil. Halle Prof.
Kunz, Miss C. E., Dr. Wisen Natuurkunde Asst.

GENERAL INFORMATION

Founded in 1855 by Sir George Grey, the College was reorganized in 1904, constituted a Univ. College in 1907, and incorporated by statute in 1910. It is 2 miles from Bloemfontein town. It provides courses for degrees in Arts, Science, Law, Education, and Commerce, and for the Teachers' Diplomas, and prelim. training for Med., Engin., and Agric.

Hostels for men and women within the Coll. grounds. Board and Residence, £55 per session. Tuition Fees: £5 per quarter (Law, £2 : 10s.).

Extra-mural Work in the Faculties of Law, Arts and Commerce.

Univ. Extension lectures, chiefly by members of the staff, in Bloemfontein and other centres.

Publication: *Calendar* (Dec.).

THE YEARS 1937, 1938

Students. (1938) Full-time: 295, including 38 graduates. Part-time: 73, including 30 graduates.

Degrees obtained (1937). B.A., 46; M.A., 8; LL.B., 4; B.Sc., 14; B.Com., 5; M.Com., 2; M.Ed., 2; Dr.Phil., 2.

HUGUENOT UNIVERSITY COLLEGE, WELLINGTON, C.P.

Founded 1907

CHAIRMAN OF SENATE AND REGISTRAR—Professor FRANCES C. KILROE.

TEACHING STAFF

Chemistry

Kilroe, Frances C., B.Sc. Lond. Prof.

Classics

Young, Annie M., LL.B. Lond., Classical Tripos, Camb. Sr. Lectr.

Domestic Science

Rogers, Doris G. Sr. Lectr.
Thwaits, Doris E. Asst. Lectr.
Griffiths, Helen Asst. Lectr.

Dutch Lang. and Lit.

Gonin, Frances C., M.A. Stell., Litt. Docts. Amsterdam Prof.

Education

Aitken, Dorothy E., M.A. Ox., B.A. Sr. Lectr.

English Lang. and Lit. [Prof.

Newman, Gwendolen, Ox. Hons.

French and German [Sr. Lectr.

Hansen, Christine, Ph.D. Heid.

Geography

Maritz, Sheila, M.Sc. Lectr.

History [Lectr.

Ventris, Eileen M. E., B.A. Lond.

Mathematics

Bateman, Gertrude, M.A. Cape T., B.A. Camb. Sr. Lectr.

Philosophy [Prof.

Robson, Grace M., B.A. Cape

Physics

Bateman, Gertrude, M.A. Cape T., B.A. Camb. Lectr.

GENERAL INFORMATION

Originally a department of the Huguenot Seminary founded by Dr. Andrew Murray in 1874, the College was incorporated by Act of the Cape Legislature in 1907 as a College for Women and became a constituent College of the Univ. in 1918.

LIBRARY, over 10,000 vols. HERBARIUM, over 2000 specimens. LABORATORIES, Chem., Physics, Dom. Sc., Physiol., Psych., Biol., Microbiol.

COURSES for B.A., B.Sc., B.Sc. (Dom. Sc.); M.A., and Diploma in Education. Teachers' Dom. Science Course and special One-year Courses.

EXPENSES. Class Fees, £25 per annum. Board at the College Hostel, £45 p.a. PUBLICATION: *Calendar* (Dec.).

THE YEAR 1937

STUDENTS. Full-time: 90, including 11 graduates. Part-time: 13.

DEGREES OBTAINED (1937). B.A., 10; B.Sc., 6; B.Sc. (Dom. Sc.), 1; Univ. Educ. Dipl. (General), 9; Univ. Educ. Dipl. (Special), 1; Teacher's Certif. in Domestic Sci., 1; Special One-year Course, 4.

NATAL UNIVERSITY COLLEGE, PIETERMARITZBURG, AND DURBAN, NATAL

Founded 1909

Address—P.O. Box 375, Maritzburg.
P.O. Box 1525, Durban.

CHAIRMAN OF COUNCIL—F. D. HUGO, B.A., Superintendent of Education, Natal.

PRINCIPAL—Prof. R. B. Denison, M.A. Cape, Ph.D. Bres. D.Sc., Leeds.

REGISTRAR—P. G. LEEB-DU-TOIT, B.Com.

TEACHING STAFF

Accountancy and Commerce (D.).
Oldham, O., A.C.I.S. Prof.
Byrd, K. F., M.A. Lond., A.C.A. (Accty.) Lectr.

Auditing (D.) [Lectr.
Byrd, K. F., M.A. Lond., A.C.A.

Botany
..... Prof.
Bayer, A. W., D.Sc. Sr. Lectr.
Fisher, Miss B. S., M.Sc. Lectr.

Chemistry
Denison, R. B., M.A. Cape, Ph.D. Bres., D.Sc. Leeds, Prof.
Mudie, A. D., M.A., B.Sc. St. And. Sr. Lectr.
Coblans, H., M.Sc., Ph.D. Lectr. (D.).
Tompkins, F. C., M.Sc., Ph.D. Brist. Lectr.

Classics
Petrie, A., M.A. Aberd., B.A. Camb. Prof.
Farrer, B. H. P., B.A. Ox., M.A. Lectr.

Dutch
Le Roux, J. J., D.Litt., Ph.D. Utrecht, B.A. Prof.
Nienaber, G. S., D.Litt. Ghent, M.A., M.Ed. Sr. Lectr.

German
Trümpelmann, J., Ph.D. Leipzig, B.A. Sr. Lectr

Economics and Econ. Hist. (D.)
Burrows, H. R., M.C., M.Com. Leeds Hudson Prof.
Halliday, I. G., B.Com. Lectr.

Education
Ferguson, J. G. W., M.A. Ox. and St. And. Prof.
Reid, A., M.A., B.Sc. Aberd. Assoc. Prof.
..... Lectr.

Engineering, Electrical (D.)
Clark, H., B.Sc. (Eng.) Lond., D I.C., A.C.G.I., M.I.E.E. Prof.
Phillips, W. E., M.Sc. Eng. (also Appl. Maths.) Lectr.

Engineering, Mech. and Civil (D.)
Neal, J. H., A.R.C.S. Lond. Prof.
Thomas, W. M., B.Sc. Wales, B.Sc. (Eng.) Leeds Assoc. Prof.
Reim, E. P., B.Sc. (Eng.) Lectr.
Rigby, C. A., B.Sc. Manit. Lectr.

(D.) = Durban.

English and Philosophy
Waterhouse, O., M.A. Vict. and Leeds Prof.
Davies, R. E., M.A., Ph.D. Lond. Lectr.
Notcutt, B., B.A. Ox., D.Ph. Stell. Lectr. (D.).

Fine Arts [Prof.
Oxley, O. P. J., A.R.C.A. Lond.
Hope, Miss R. S. Lectr.

French [Senr. Lectr.
Leiper, Miss M. K., M.A.

Geography
Jehu, R. M., M.Sc. Wales, F.G.S. Sr. Lectr.

Geology
King, L. C., M.Sc. N.Z., Ph.D., F.G.S. Sr. Lectr.

History [Prof.
Hattersley, A. F., M.A. Camb.
Prestwich, M. F., B.A. Camb. Lectr.

Law
Burchell, F. B., M.A., LL.B. Camb. Prof.
Seymour, G. E. M., B.A., LL.B. Lectr.
Sweeney, G. M. J., B.A., LL.B. Lectr. (D.).

Mathematics, Pure and Applied
McKinnell, J., M.A., B.Sc. Glas. Prof.
Stein, P., M.A., Ph.D. Camb., B.A. Cape Prof. (D.).
Rosenberg, R. L., M.A. Cape, Ph.D. Berlin, D I.C. Lond. Sr. Lectr.
Coblans, H., M.Sc., Ph.D. Lectr. (D.).
Phillips, W. E. (also Eng., Elect.) Lectr. (D.).
..... Lectr. (D.).

Physics
Mesham, P., M.Sc. Liv. Prof.
Hodges, D. B., B.A. Cape, M.Sc., Ph.D. Assoc. Prof. (D.).
Coutts, J. R. H., M.Sc. Lond., F.Inst.P. Sr. Lectr.

Psychology
Yule, Ella T. Pratt, M.A., Ph.D. St. And. Senr. Lectr.

Zoology
Bush, S. F., D.Phil. Ox., M.Sc. Sr. Lectr.

(D.) = Durban.

GENERAL INFORMATION

Established by an Act of 1909, the College was opened in 1910 in the Town Hall and moved in 1912 to its own buildings (which, with equipment, cost £60,000) in the suburb of Scottsville. A new Science block and a women's hostel were added in 1921 and a hostel for men in 1928. A new wing was added in 1934 at Pietermaritzburg and a Library and Fine Arts School in 1936. Students have access to Maritzburg *Botanical Gardens* and Govt. *Museum.*

In 1926 a site of 50 acres at Stellawood was presented by the Corporation for the erection of an Engineering College, £50,000 having been given in 1924 by Mr. T. B. Davis for this purpose. Natal University College (Howard College), Durban, was opened in 1931. A new Commerce Building in Durban was added in 1936.

COURSES leading to the B.A., B.A. (Fine Arts), B.Com., B.Sc., M.A., M.Sc., M.Ed., etc., 1st examn. for B.Sc. in Agric. (including 1st yr.'s course for Med. students), LL.B., Natal Law Certif. and Natal Advocates' Law examn., Survey examn. (theory only). Diploma (Postgraduate) in Education. Faculties of Engineering and Commerce inclusive of Economics are located in Durban.

FEES. Approximately £35-£40 p.a. for tuition, registration, Students' Representative Council, etc.

BURSARIES. A number of Bursaries are offered by municipalities, societies, and schools.

HOSTELS for women and men students. Fees, £60 p.a.

LIBRARIES. *c.* 20,000 vols. at Pietermaritzburg and 10,000 in Durban.

PUBLICATIONS. *Calendar* (March). Students' newspaper, *N.U.X.* (monthly).

THE YEARS 1937, 1938

BENEFACTIONS. Pietermaritzburg Municipality, £1000; Durban Municipality, £4000; sundry donations towards New Students' Club House, £1250.

NEW POSTS. Professorships in Engineering and Physics at Durban; Lectureships in Maths. at Durban and in Education at Pietermaritzburg; 4 Senior Lectureships (promotions).

VISIT OF TEACHERS FROM OTHER UNIVERSITIES. A party of Biologists from Holland.

STUDENTS (1938). Full-time: 480, including 60 graduates. Part-time: 260, including 12 graduates.

DEGREES OBTAINED (1937). B.A., 43; M.A., 11; B.A. (Fine Arts), 3; LL.B., 5; B.Sc., 32; M.Sc., 2; B.Sc. (Eng.), 12; B.Com., 4; M.Ed., 2; Ph.D., 1. Diplomas: 43 (graduate), 6 (non-graduate).

THE POTCHEFSTROOM UNIVERSITY COLLEGE
FOR CHRISTIAN HIGHER EDUCATION
TRANSVAAL

Founded 1869

CHAIRMAN OF COUNCIL—Rev. W. J. DE KLERK.

RECTOR AND CHAIRMAN OF THE SENATE—Prof. F. POSTMA, D.Litt. Amst.

SECRETARY OF COUNCIL AND SENATE—Prof. J. C. VAN ROOY, Ph.D. Amst., M.A.

REGISTRAR—S. DU TOIT.

LIBRARIAN—Prof. G. DEKKER, M.A., D.Litt.

TEACHING STAFF

Botany

Goossens, A. P., Ph.D., D.Sc. Prof.
Theron, J. J., D.Phil. Berlin, M.Sc. Asst.

Chemistry [Prof.

du Plessis, D. J., Ph.D. Bonn, M.Sc.
le Roux, L. J., M.Sc. Asst.

Classics

Postma, F., D.Litt. Amst. Prof.
Postma, J., B.A., B.D. Asst.

Dutch and Afrikaans [Prof.

Dekker, G., D.Litt. Amst., M.A.
Labuschagne, F. J., M.A. Prof.

Economics

van der Merwe, J. P., D.Litt. Amst., M.A. Prof.
Kruger, D. W., M.A., D.Litt. Sr. Lectr.

Education

Coetzee, J. C., M.A., M.Ed., D.Phil. Prof.
van der Merwe, P. J., M.A. Witw. Hon. Prof.
du Preez, D. C. S., M.A. Witw., Ph.D. Amst. Sr. Lectr.
Hattingh, J. M., B.A. Lectr.

English

Titlestad, R. M., B.A. Ox., M.A., LL.B. Prof.
Lennox-Short, A , B.A. Ox., M.A. Cape T. Jnr. Lectr.

Geography and Geology

van der Merwe, J. S., M.Sc. Sr. Lectr.
Yssel, G., B.A. Asst.

German

Schulze, H. G., Ph.D. Bonn, M.A. Dean and Prof.
1 Asst.

History

van der Walt, A. J. H., Ph.D. Berl., M.A. Prof.
Kruger, D. W., M.A., D.Litt. Sr. Lectr.

Mathematics and Applied Maths.

van Rooy, D. J., M.A. Prof.
Malan, A. P., M.Sc. Sr. Lectr.

Physics

van Wageningen, G. Prof.
le Roux, L. J., M.Sc. Asst.

Logic and Metaphysics

Stoker, H. G., Ph.D. Köln, M.A. Prof.

Politics and Law

du Plessis, L. J., M.A., M.Econ., LL.B. Prof.
Kruger, D. W., M.A., D.Litt. Sr. Lectr.

Psychology

Coetzee, J. C., M.A., M.Ed., D.Phil. Prof.
du Preez, D. C. S., M.A. Witw., Ph.D. Amst. Sr. Lectr.
Hattingh, J. M., B.A. Lectr

Sociology and Ethics

van Rooy, J. C., M.A., Ph.D. Amst. Prof.
du Preez, D. C. S., M.A. Witw., Ph.D. Amst. Sr. Lectr.
Retief, Miss A., B.A. Stell. Asst.

Theology [Prof.

du Toit, J. D., D.D., D.Litt. Amst.
de Wet, C. J. H., D.D. Amst. Prof.
du Toit, S., M.A. Pret., M.Div. Prof.

Zoology and Biology [Prof.

Eiselen, G. T. S., M.Sc. Witw.
deVos, Miss C. M., M. Sc. Stell. Asst.

GENERAL INFORMATION

Founded 1869, and admitted in 1921 as a Constituent College of the Univ. of South Africa. An Amendment to the Potchefstroom University College Private Act was passed by Parliament in 1933. The full title of the College under this Act is now "The Potchefstroom University College for Christian Higher Education."

PUBLICATION. *Calendar* (Dec.).

THE YEAR 1938

BENEFACTIONS. Dr. Merensky, £500; P. Stoker, £200; Municipality Potchefstroom, £2000; anonymous, £200; J. L. van Schaik, £100.

NEW POSTS. Junr. Lectureships in Educ. and Psychol. and Chem. and Physics.

STUDENTS. Full-time, 437, including 35 graduates. Part-time, 33.

DEGREES OBTAINED. B.A., 28; B.Sc., 6; B.D., 3; M.A., 2; M.Sc., 2; M.Ed., 3; D.Litt., 1.

RHODES UNIVERSITY COLLEGE, GRAHAMSTOWN, C.P.

Founded 1904

Address—P.O. Box 94.

CHAIRMAN OF COUNCIL—J. D. LOUW, L.D.S.

MASTER AND CHAIRMAN OF SENATE—J. SMEATH THOMAS, D.Sc. Liv., F.I.C.

REGISTRAR—Major E. B. WALKER, M.B.E., M.C.

TEACHING STAFF

Anatomy and Physiology

Drury, E. G. D., M.D. Lond. and Cape, B.S. Lond., D.P.H. Durh., M.R.C.S., L.R.C.P. Lectr.

Art

Winter Moore, A., A.R.C.A. Prof.
Bates, Mrs. N. M. Lectr.
Hamburger, J. (Pottery) Carnegie Instr.
Stone, Miss C. I. Demr.

Biology

Leemann, A. C., D.Sc. Geneva Hon. Lectr.

Botany

Smith, N. J. G., M.A., B.Sc. Edin., Ph.D. Camb. Prof.
Britten, Miss L. L., B.A. Cape Sr. Lectr.
Rayment, Miss H. M. L., B.Sc. Demr.

Chemistry and Metallurgy

Barker, W. F., B.Sc., Ph.D. Liv. Prof.
Smith, J. L. B., B.A. Cape, M.Sc. Stell., Ph.D. Camb. Sr. Lectr.
Spong, A. H., M.Sc. Lond., Ph.D. Camb. Lectr.
Harris, T. F. W., B.Sc. Demr.
Read, F. O., B.Sc. Demr.
Snedden, I. W. Demr.

Classics

White, K. D., B.A. Camb. Prof.
Barratt, A. J., M.A. Ox. Sr. Lectr.

Commerce, Accounting, Business Management, etc.

Liddell, D., M.A., B.Com. Edin. Sr. Lectr.
Franklin, N. N., B.A. Camb. and S.A. Lectr.

Dutch

Dingemans, G. F., M.A. Edin. and Cape Prof.
Hendrikz, Miss P. A., M.A. Lectr.

Economics and Politics

Houghton, D. H., B.A. Ox. and S.A. Sr. Lectr.
Franklin, N. N., B.A. Camb. and S.A. Lectr.

Education

Morton, D. M., B.Sc., M.A., Ed.B. Glas. Prof.
Hendrikz, Miss P. A., M.A. Lectr.
..... Lectr.

Instructors

Bergh, Miss I. (Needlework).
Alberts, P. J. (Woodwork).
Forword, Miss M. (Elocution).
Lane, Miss K. E. L., L.T.A.M. (Singing).
Sieverdink, Mrs. A. H. J. (Typewriting & Shorthand).
..... (Drawing).

English

Haworth, P., M.A. Ox., Ph.D. Innsbruck — Prof.
Seary, E. R., M.A., Ph.D. Sheff. — Lectr.
Warner, A. J., B.A. Camb. — Lectr.

French

Guiton, P. A., B.A. Lond. — Prof.

Geography and Mineralogy

Rennie, J. V. L., M.A., Ph.D. Camb., Geog. Dip. Lond. — Lectr.
Ruddock, A., B.Sc. Durh. — Lectr.
Coventry, C. C. — Demr.

Geology

Mountain, E. D., M.A. Camb. — Prof.
Ruddock, A., B.Sc. Durh. — Lectr.
Kingwill, D. G. — Demr.
Wood, W. H. — Demr.

German

Meyer, C. J., Cand. Lit. Amsterdam, M.O. — Germ. Lectr.

History

Roberts, M., M.A., D.Phil. Ox. — Prof.
Rousseau, I. J., M.A. Ox. (S.A. History) — Assoc. Prof.

Law

McKerron, G. G., M.A. Edin., LL.B. Edin. and Cape — Prof.
Back, A. W., LL.B. Lond. — Lectr.
Jennett, A., B.A., LL.B. — Lectr.
Graham, K. D., B.A., LL.B. — Lectr.
Sampson, H. F., B.A. — Lectr.

Logic and Ethics

Lord, A. R., M.A. Ox. — Prof.

Mathematics, Pure and Applied

Burnett, D., M.A., B.Sc. Aberd., Ph.D. Camb. — Prof.
Wood, A. H. H., M.A. Cape — Sr. Lectr.
King, J. W., M.Sc. — Lectr.

Music

Lane, Miss K. E. L., L.R.A.M. — Lectr.

Physics

Varder, R. W., M.A. Cape — Prof.
Watson, S. W., B.A. Cape, M.A., Ph.D. Camb. — Sr. Lectr.
Elder, J. S., B.Sc. — Demr.
Milne, D., B Sc. — Demr.
Hewitt, F. J. — Demr.
Gaylard, J. F. — Demr.
Winter Moore, Prof. A. (Drawing and Graphics) — Instr.
1 Mech. Asst.

Physiology, v. Anat. and Physiol.

Psychology

Wild, E. H., Ph.D. Lond., M.Sc. — Sr. Lectr.
..... — Lectr.
Collett, Miss R. R. — Demr.
Hallıday, Miss A. M. — Demr.

Tanning Research

Shuttleworth, S. G., M.Sc., Ph.D. — Research Asst.
Sebba, J., B.Sc. — Asst.
Nisbet, Miss G. — Asst.

Zoology

Omer-Cooper, J., M.A. Camb., M.Sc. Durh., F.L.S. — Actg. Prof. & Sr. Lectr.
Lyle, Miss A., M.Sc. — Lectr.

GENERAL INFORMATION

Incorporated 1904. A Constituent College of the Univ. of South Africa. For historical sketch, see *Yearbook* for 1929, p. 505.

FINE ART. The College possesses a school specially built for the teaching of Fine Art and the Art Crafts, adjoining the local art gallery.

LIBRARY. 55,000 vols. Access to Grahamstown Public Library (large collection of " Africana ").

LABORATORIES. Applied Maths., Bot., Chem., Geog., Geol., Metall., Mineral., Phys., Phys. Chem., Psychol., Tanning Research, Zool.

COURSES. B.A., B.Sc., B.Com., B.Econ., each 3 yrs.; B.A. (Fine Arts), 4 yrs. Law Certif. (Attorneys) and Dip. in Surveying, each 2 yrs. First yr. courses in Medicine, Dent., Engin., Agric., Vet. Sci. and Mining. Postgraduate —Univ. Dip. in Educ., 1 yr.; M.Ed., 1 yr. after obtaining degree and U.E.D.; M.A., M.Sc., 1 yr. plus 6 mths. for thesis; M.Com., 1 yr.; LL.B., 2-3 yrs. after obtaining B.A.; Ph.D. minimum, 2 yrs.' research after M.Sc.

FEES. Approximate annual fees: B.A., £38; B.Sc., £48; B.Com., £39; B.A. (Fine Arts), £39; LL.B., £50. This charge covers registration, examns., tuition and laboratory fees, library, athletics, Students' Societies.

COLLEGE SCHOLARSHIPS open to graduates: 2 of £40, 1 of £50.

HOSTELS for 200 men ("College," "Botha," "Milner," and "Struben" Houses); for 200 women ("Oriel," "Jameson," "Beit" and "Phelps" Houses) with dining-halls, etc. Residence (single room), £60 p.a.

PUBLICATIONS. *Calendar* (November); *The Rhodian* (twice a year).

THE YEAR 1938

BENEFACTIONS. Annual Grants: Municipal and Divisional Councils of Eastern Province, £2500; S. Rhodesian Govt., £750; Old Rhodian Union, £200; Midland Chamber of Industries, £50; Hides and Skins Advisory Board, £400 for Tanning Research; African Explosives and Industries, £150 for Chemical Research; the Carnegie Corporation of New York, £500 for instruction in Pottery at School of Art.

NEW BUILDING. New residence, "Phelps" House, to accommodate 55 women students.

NEW DEPARTMENTS AND POSTS. Associate Professorship for new Sub-Dept. of S. African History; Carnegie Instructor in Pottery at the School of Art; lectureships in English and Geography and Geology.

EXTRA-MURAL WORK. Extension lectures by members of the staff in the Eastern Province. A Series of Wireless Talks under the auspices of the College Senate—"Great Occasions," by members of the College staff, and broadcast from the Grahamstown station of the African Broadcasting Corporation.

VISITORS. Dr. P. Geyl (Utrecht), "The Place of the Dutch Republic in World History"; Rev. Dr. Rufus Jones (Head of American League of Service), "Does History and Science indicate Human Progress?" and "Some Great Adventures."

RETIREMENT. Prof. C. W. Bowles (Classics).

DEATH. Emeritus Prof. J. E. Duerden (Prof. of Zoology 1905–1932).

STUDENTS. Full-time: 414, including 60 graduates. Part-time: 31.

DEGREES OBTAINED. B.A., 70; B.A. (Fine Arts), 3; M.A., 10; LL.B., 3; B.Sc., 23; M.Sc., 3; Ph.D., 1; B.Com., 11; Univ. Education Diploma, 28; Law Certif., Pt. I., 4; Pt. II., 1; Survey, Pt. I., 3; Pt. II., 1.

UNIVERSITY OF PRETORIA

Founded 1930

CHAIRMAN OF COUNCIL—G. MOERDYK, B.A., A.R.I.B.A.

CHANCELLOR—H. J. VAN DER BIJL, M.A., Ph.D., M.A.I.E.E., M.I.R.E.

VICE-CHANCELLOR AND RECTOR—C. F. SCHMIDT, B.A.

REGISTRAR—J. C. V. BREYTENBACH, B.A., LL.B.

LIBRARIAN—P. C. COETZEE, B.A., S.A., A.L.A.

TEACHING STAFF

Accountancy, v. Commerce

Agriculture, v. *infra*

Architecture and Quantity Surveying

Bell-John, H., M.C., F.S.I., L.R.I.B.A., F.I.A.A. (Quantities, Specifns., Bldg. Materials, Professional Practice) Prof.

Lecturers

Fassler, J., B.Arch. Witw. (Architect. Design and Freehand Drawing).

Martienssen, R., B.Arch. Witw., A.R.I.B.A. (Archit. Design and Hist. of A.).

McIntosh, W. G., B.Arch. Witw., A.R.I.B.A., Dip. Q.S. (Town Planning, Struct. Design, Theory of Struct., Geom. Drawing, Hist. of A.).

Todd, C. E., A.R.I.B.A., Dip. Arch. Witw. (Building Construction).

van Tonder, A. J., B.A. Cape, M.Sc. Calif., A.C.G.I. (Graphic Statics, Strength of Materials, Surveying and Levelling).

Whale, G. R., M.R.S.I., M.I.A. (Sanitation and Hyg.).

Bantu Studies

Engelbrecht, J. A., M.A. Stell., Ph.D. Berlin (Bantu Langs.). Prof.

Beukes, W. T. H., B.A. S.A., Ph.D. Hamburg (Anthropol. and Native Admin.) Sr. Lectr.

Prinsloo, C. W., B.A. Stell., M.A. Lectr.

Biochemistry, v. *infra* Vet. Science

Botany and Biology v. also Vet. Science

..... Louis Botha Prof.

Elbrecht, B., B.A., M.Sc. S.A., Ph.D. Utr. Prof.

Mes, Miss G., B.Sc. S.A., Ph.D. Utr. Sr. Lectr.

van Huyssteen, Miss D. C., M.Sc. Stell., Ph.D. Berlin Lectr.

2 Demrs.

Chemistry

Malherbe, D. F. du T., M.A. Cape, Ph.D. Halle Prof.

Schilz, W. E., M.Sc. S.A., Ph.D. Munich, D.I.C. Lond. Sr. Lectr.

Chemistry, Physical

Tromp, F. J., B.A. Cape and Camb., D.Sc., LL.B. S.A. Prof.

2 Demrs. and 1 Lab. Asst.

Classics, v. also History, Ancient

Viljoen, H. G., Litt. Class. Dr. Gron., Dean Fac. of Arts (Greek) Prof.

Gonin, H. L., B.A. Stell. and Ox., Litt.D. Leid. (Latin) Prof.

Commerce and Public Administration, v. also Geog., Law, Maths.

Arndt, E. H. D., B.A. S.A., M.A., Ph.D. Columbia (Banking). Prof.

..... (Accountancy) Prof.

Gey van Pittius, E. F. W., M.A. S.A., Ph.D. Lond. (Public Admin. and Polit. Sc.) Dean of Fac., Prof.

Steenkamp, W. F. J., Docts. Merc. Rotterdam (C. and Indust. Econ.) Prof.

Viljoen, S. P., M.A. Cape, Ph.D. Lond. (Econ. and E. Hist.) Prof.

3 Pt.-time Lectrs.

Domestic Science, v. Agriculture *infra*

Dutch, Afrikaans and Germanic Philol.

Bokhorst, M., Ph.D., Litt.D. Leid. (Hist. of Netherlands Culture) Prof.

..... (Hist. of Afrikaans Art and Culture) Prof.

Le Roux, T. H., B.A. Cape, Litt.D. Leid. (Dutch and Germanic Philology) Prof.

Kritzinger, M. S. B., M.A., D.Litt. S.A. (Dutch) Prof.

Buning, T. J., B.A., B.Sc. S.A., M.A., D.Litt. (Afrikaans) Lectr.

3 Pt.-time Lectrs. (Hist. of Afr. Art & Culture)

Economics, v. Commerce

Education, v. *infra*

English

Wallis, J. P. R., M.A. Liv. Prof.

Partridge, A. C., M.A. Sr. Lectr.

Knowles-Williams, Miss G., M.A. Jnr. Lectr.

Entomology, v. Agriculture, *infra*

French

Strelen, Mrs. E. Lectr.

Geography and Econ. Geog.

Plummer, F. E., M.A. Camb. Prof.

Hugo, C. F., B.A. S.A., M.A. Stell. Sr. Lectr.

3 Demrs.

Geology

De Villiers, L. C., Ph.D., M.E. Freib. Prof.

German

de Villiers, W. P., B.A. Cape, Ph.D. and Litt.D. Ghent Prof.

Mostert, L. C., D.Phil. Hamb. Sr. Lectr.

Hebrew [Prof.

Gemser, B., D.Litt., Th.D. Gron.

van Selms, A., Th.D. Utr. Sr. Lectr.

History

Bosman, I. D., M.A. S.A., Litt.D. Amst. Prof.

Agar-Hamilton, I., M.A. Cape, M.A., B.Litt. Ox. Sr. Lectr.

Bokhorst, M., Ph.D., Litt.D. Leiden Prof.

Law, v. *infra*

Mathematics

..... Prof.

Duminy, J. P., M.A. Cape, B.A., B.Sc. Ox. Dean, Fac. of Sci., Prof.

de Loor, B., M.Sc. S.A., Ph.D. Amst. Sr. Lectr.

Mathematics, Applied

Beezhold, W. F., D.Sc. Utr., M.Sc. Sr. Lectr.

Mineralogy and Petrography

Lombaard, B. V., M.Sc. S.A., Ph.D. Zurich, D.Sc. Prof.

Music

(in abeyance).

Philosophy

Hugo, T. J., B.A. Cape, Ph.D. Gron. Prof.

Rautenbach, C. H., B.A., B.D., M.A. S.A., D.Phil. Lectr.

Physics

van der Lingen, J. S., B.A. Cape, Ph.D. J. Hop., M.D.P.G., F.P.S., F.I.P. Prof.

Voss, V., B.A. Cape, M.A., Ph.D. J. Hop. Sr. Lectr.

Immelman, M. N. S., M.Sc. Cape T. Sr. Lectr.

2 Demrs.

Physiology, v. Zoology and Vet. Science

Political Science and Public Admin., v. Comm.

Psychology

Skawran, P. R., Ph.D. Bonn Prof.

Social- and Psycho-pathology

Willemse, W. A., M.A. S.A., Ph.D. Bonn, D.Phil. Prof.

Sociology

Cronje, G., M.A. Stell., Drs. Ed., Litt. et Phil. Amst. Prof.

1 Asst.

Theology, v. *infra*

Veterinary Science, v. *infra*

Zoology and Physiology

Malan, D. E., M.A. Cape, Ph.D. Zür. (Zool.) Prof.

Malan, D. J., M.Sc. S.A. Sr. Lectr.

Brink, C., B.Sc. Stell. Lectr.

Zootechnics, v. *infra* Vet. Science

Theology

Dutch Reformed Church

Greyvenstein, J. H. J. A., B.A. Cape, Th.D. Utr. (Christian Ethics and New Test. Exegesis) Prof.

Gemser, B., D.Litt., Th.D. Gron. (Old Test. Exegesis) Prof.

Engelbrecht, S. P., Th.D. Utr. (Church Hist.), Dean of Fac. Prof.

Pellissier, Rev. G. M., B.A., B.D. (Comp. Religion and Philos. of Religion) Prof.

Wolmarans, H. P., M.A., B.D. S.A., Dr.Teol. Gron. (Philos. of Religion) Prof.

United Dutch Reformed Church of S.A.

Groenewald, E. P., M.A. Stell., Th.Dr. Amst. (Christian Ethics and New Test. Exegesis) Prof.

Kritzinger, J. M., M.A. Stell., Th.Dr. Amst. (Old Test. Exegesis and Theol.) Prof.

Keet, D. J., B.A. Ox., D.D. Amst. (Church History, History of Dogma and Canon Law) Prof.

Pellissier, G. M., B.A. Cape, B.D. Lond. (Dogmatics and Philos. of Religion) Prof.

Education

Educational Psycho- and Social-pathology

Willemse, W. A., M.A., S.A., Ph.D. Bonn, D.Phil. Prof.

Educational Sociology

Cronje, G., M.A. Stell, Drs. Ed., Litt. et Phil. Amst. Prof.

History of Education in South Africa

Bosman, I. D., M.A. S.A., Litt.D. Amst. Prof.

General History and Theory of Education

Bosman, J. C., M.A. Harv. Dean of Fac., Prof.

Native Education

Engelbrecht, J. A., M.A. Stell., Ph.D. Berlin Prof.

Philosophy of Education

Hugo, T. J., B.A. Cape, Ph.D. Gron. Prof.

Psychology of Education

Skawran, P. R., Ph.D. Bonn Prof.

5 Part-time Lectrs.

Law

Jurisprudence, Roman and Roman-Dutch L., Internat. Private L., Comparative L.

Pont, D., LL.D. Utr., LL.B. S.A., Dean of Fac. Prof.

Crim., Const. and Admin. L. and Public Internat. L.

Coertze, L. I., M.A., LL.B. Stell. Prof.

Hamman, E. M., B.A., LL.B., Jur. Doct. Leiden (Merc. L.) Sr. Lectr.

Procedure and Evidence

Dowling, W., B.A. Cape, B.A., B.C.L. Ox. Lectr.

Roman Law

Reitz, R., LL.D. Amst. Lectr.

Bliss, M., B.A. S.A., LL.D. Leiden, LL.B. Temp. Lectr.

Agriculture

Agric. Botany

Hector, J. M., B.Sc. Aberd. Prof.

Wyers, Miss E. E., B.A.S.A. Jr. Lectr.

Agric. Chemistry and Soil Technology

Ross, J. C., B.A. Cape, M.Sc., Ph.D. Ill. Prof.

Theron, J. J., B.Sc.Agr. S.A., Ph.D. Calif. (Soil Tech.) Prof.

van Wyk, L. P., B.Sc.Agr. S.A. Asst.

Wentzel, L. M., M.Sc. Cape. Asst.

Agricultural Co-operation

Grosskopf, J. F. W., M.A., Jur. D. Leiden Prof.

Agric. Economics

Tomlinson, F. R., M.Sc. Stell., Ph.D. Cornell, D.Sc. Prof.

1 Asst. Lectr.

Agric. Engineering

van Tonder, A. J., B.A. Cape, M.Sc. Calif., A.C.G.I. Prof.

Agric. Entomology

Faure, J. C., M.A., B.Sc. Corn. Prof.

Janse, A. J. T., D.Sc. S.A. (Systematic E.) Hon. Prof.

van der Linde, W. J., M.Sc., Ph.D. Lectr.

Agronomy

Pullen, A. R., M.Sc. Ill., B.Sc.Agr. S.A. Prof.

Haylett, D. G., M.Sc. Ill., Ph.D. Corn. Sr. Lectr.

Animal Husbandry, Sheep and Wool, Animal Breeding

Bosman, A. M., B.Sc. Tor. Prof.

Bonsma, F. N., B.Sc. Agr. S.A. (Animal Breeding) Prof.

Oosthuizen, P. M., Ph.D. Camb., B.Sc.Agr. Sr. Lectr.

Dairying

Davel, H. B., B.Sc. Iowa Union Castle Prof.

Domestic Science

Davidtsz, Miss M. J., B.Sc. Columbia Prof.

..... Lectr.

Louw, Miss L., B.Sc. (Dom. Sc.) Lectr.

1 Temp. Lectr.

Grassland Research

Ross, R. Lindsay Hon. Prof.

Horticulture

Powell, H. Clark, B.Sc. Calif. Union Castle Prof.

Poultry, v. also Vet. Sci.

van Rooyen, L. A., M.Sc. Corn., B.Sc.Agr. S.A. Union Castle Prof.

Veterinary Science

Henning, M. W., M.R.C.V.S. Prof.

Veterinary Science

Biochemistry

Malan, A. I., D.Sc. Stell. Prof.

Poultry Diseases

Coles, J. D. W., B.V.Sc. Lectr.

Vet. Anatomy

Jackson, C., B.Sc., D.V.Sc., S.A. Prof.

Cloete, J. H. L., B.V.Sc. Lectr.

Vet. Bacteriology and Infectious Diseases

Robinson, E. M., D.M.V. Berne, D.V.Sc. S.A., F.R.C.V.S. Prof.

Scheuber, J. R., D.M.V. Berne Lectr.

Vet. Botany

Mogg, A. O. D., M.A. Camb. Sr. Lectr.

Vet. Hygiene, Municipal

Fourie, P. J. J., M.R.C.V.S., Dr. Med. Vet. Utrecht Prof.

Lund, A. E., B.V.Sc., S.A. Lectr.

Vet. Medicine

Parkin, B. S., D.Sc. S.A., M.R.C.V.S. Prof.

van Rensburg, S. W., B.A. Cape T., M.R.C.V.S. Lectr.

Vet. (State) Medicine

van Heerden, C. J., M.R.C.V.S. Prof.

Vet. Parasitology

Mönnig, H. O., Ph.D. Zür., B.A. Cape, B.V.Sc. S.A. (also Entomol. and Helminthol.) Prof.

Vet. Pathology

Thomas, A. D., D.V.Sc. S.A. Prof.

Vet. Pathology, Comparative

De Kock, G. v. d. W., D.M.V. Berne, D.Sc., M.R.C.V.S. Prof.

Graf, H., B.Sc., D.V.Sc. S.A. Lectr.

Vet. Pharmacology and Toxicol.

Steyn, D. G., B.Sc. Stell., Dr.Med. Vet. Vienna, D.V.Sc. Sr. Lectr.

Vet. Physiology

Quin, J. I., D.V.Sc. S.A. Prof.

Vet. Surgery and Obstetrics

Quinlan, J. B., D.M.V. Hanover, D.V.Sc. S.A., F.R.C.V.S. Prof.

Steyn, H. P., B.V.Sc. Lectr.

Vet. Tropical Diseases and Protozoology

Du Toit, P. J., B.A. Cape, Ph.D. Zür., D.M.V. Berl., D.Sc. (Agr.) Stell., Dean of Fac. Prof.

Zootechnics

Bisshop, J. H. R., B.Sc. Agr., B.V.Sc. S.A. Lectr.

Groenewald, J. W., B.Sc., M.Sc. Ames, D.Sc.Agric. (Animal Nutrition) Lectr.

GENERAL INFORMATION

Founded 1910. For early history, see *Yearbook*, 1929, pp. 508-9.

In 1930 the Transvaal University Coll. was incorporated by Act of the Legislature of the Union of S. Africa as an independent Univ. under the title of The Univ. of Pretoria. The Univ. consists of the Chancellor, the Vice-Chancellor, the Rector, the Council, Senate, and Convocation, together with the Professors, other teachers, and students of the Univ. The Rector is *ex officio* Chairman of the Senate.

The Act provides for Faculties or Departments of Theology, Arts, Commerce and Public Administration, Education, Law, Science, Music, Agriculture, Veterinary Science, and such other Faculties or Depts. as the Council may,

after consultation with the Senate, with the approval of the Governor-General and subject to the Statutes, from time to time establish.

The Faculty of Agriculture is one of two in South Africa. It is specialized along different lines from the Faculty in Stellenbosch Univ., attention being paid to Animal and Field Husbandry and Citriculture. The Faculty of Veterinary Science was grafted on to the Veterinary Research Laboratory at Onderstepoort (v. App. III. B. 4).

DEGREES. B.A., B.A. (Social Work), B.A. (Admin.), B.Com., B.Sc., B.Mus. (in abeyance)—3 yrs. B.Sc. (Agric.), B.Sc. (Agric. Eng.), B.Sc. (Dom. Sci.)—4 yrs. B.Sc. (Q.S.), B.V.S.—5 yrs. Higher degrees: M.A., M.A. (Admin.), M.Com., M.Sc.—not less than 18 mths. after corresponding Bachelor's degree, M.Sc. (Agric.)—not less than 1 yr. after corresponding Bachelor's degree; M.Ed.—not less than 18 mths. after Bachelor's degree and Higher Dip. in Education or equivalent dip. LL.B., 2 or 3 yrs. after B.A.; B.D., 3 yrs. after B.A. D.Litt., D.Phil. (Arts, Com. and Pub. Admin.), D.Com., D.Mus.—not less than 4 yrs. from Bachelor's degree or 2 yrs. from Master's degree; LL.D., not less than 2 yrs. from LL.B.; D.D., not less than 2 yrs. from B.D.; D.V.Sc., not less than 4 yrs. from B.V.Sc. or 2 yrs. from B.V.Sc. if at least 1 yr. after B.V.Sc. has been spent on research at an approved institution.

DIPLOMAS. Quantity Surveying, 4 yrs.; Music (in abeyance), Commerce. Public Administration, Native Administration, Social Work, 3 yrs.; Native Education, 1 yr.; Higher Education, 1 yr. postgraduate.

COURSES are provided for all degrees and diplomas of the Univ. in Divinity, Arts, Commerce and Public Administration, Law, Science, Agriculture, Agricultural Engineering, Veterinary Science. Course in Librarianship may be taken concurrently with B.A. degree. Special courses are available for teachers of Agriculture and of Domestic Science. Five-yr. course in Tropical Veterinary Medicine leads to degree of B.V.Sc. Full courses are available in Architecture and Surveying and special provision is made for Bantu Studies.

FEE for full degree course, £20 to £33.

EXTRA-MURAL STUDIES. A special feature of the Univ. is the work done in the Extra-mural Faculties. In a building in the centre of the town three miles from the main buildings lectures are given, out of ordinary business hours, for the benefit of public servants, articled clerks, commercial men and teachers. About 300 students are enrolled, practically all for full degree courses: for B.A., Law B.A., LL.B., B.Com., B.A. (Admin.), Masters' degrees, Law Certificate, Banker's Certificate, or Diplomas in Bantu Studies and Native Administration.

UNIVERSITY EXTENSION. The faculties of Agric. and Vet. Sc. cooperate with the Union Dept. of Agriculture in connexion with the extension training service organized by it. Public Lectures are being organized in Pretoria and surrounding districts.

HOSTELS. 4 for men, including the Dutch and English Church Hostels, and 1 for women. Board and Residence, £54 p.a., plus £3 p.a. laundry fees.

LIBRARY, 115,000 vols. LABORATORIES: Applied Maths., Bot., Chem., Entom., Geogr., Geol., Phys., Psychology, Zool., Agric. Bot., Agric. Chem., Agronomy, Vet. Anat., Sheep and Wool, Domestic Science. ASTRONOMICAL OBSERVATORY. CHILD GUIDANCE CLINIC.

PUBLICATIONS. *Calendar* (November); bulletins containing result of research by members of staff.

THE YEARS 1937, 1938

NEW BUILDING. The new Library building, the foundation-stone of which was laid by the Rt. Hon. Gen. J. C. Smuts on 11th Oct. 1937, is nearing completion and should be in use before the end of the year.

NEW DEPARTMENTS AND POSTS. A new section has been added to the Fac. of Theol., to meet requirements of United Dutch Reformed Church of S.A. The profs. are listed in the directory section. Professorships in Philos. of Religion, in Agric. Engin. and in Poultry Breeding have replaced former lectureships. An additional professorship in Vet. Pathol. has been established and new Depts. of Compar. Vet. Pathol., of Animal Breeding and of Soil Tech. created.

EXTRA-MURAL WORK. The Council has decided to extend the activities in the extra-mural section by making further provision for specialization in various directions for the B.A. degree, *e.g.* in Law, in Bantu Studies, in Political and Social Sciences, and in English and Afrikaans.

CHANGES IN REGULATIONS. Revised regs. for B.A. degree in Social Work, for degrees and dipls. in Fac. of Educ., for degrees in Fac. of Theol., and for Masters' and Doctors' degrees will come into force in 1939.

VISITING TEACHERS FROM OTHER UNIVERSITIES. Prof. P. Petersen (Jena), a lecture on the Jena Plan ; Prof. R. Plank (Karlsruhe), a series of lectures on problems connected with refrigeration.

RESIGNATIONS. Prof. S. R. Barnes (Accountancy), Prof. A. E. du Toit (Maths.), Prof. H. D. Leppan (Agric. Economics), on appt. to National Marketing Council.

DEATHS. S. P. Bekker, Administrator of Transvaal, and Member of Univ. Council ; Prof. M. L. du Toit (Afrikaans Art).

STUDENTS. Full-time : 1132, including 200 graduates. Part-time : 34, including 4 graduates.

DEGREES OBTAINED. B.D., 4 ; B.A., 58 ; M.A., 13 ; D.Litt., 3 B.A. (S.W.), 1 ; LL.B., 10 ; B.Sc., 23 ; M.Sc., 3 ; D.Sc., 1 ; B.Sc. (Q.S.), 1 ; B.Sc. (Agric.), 8 ; M.Sc. (Agric.), 1 ; D.Sc. (Agric.), 2 ; B.Sc. (Dom. Sc.), 3 ; B.Com., 25 ; D.Com., 1 ; B.A. (Admin.), 3 ; B.V.Sc., 7 ; M.Ed., 8 ; H.E.D., 18 ; Dip. (Q.S.), 6.

UNIVERSITY OF STELLENBOSCH

Founded 1916

CHANCELLOR—Prof. A. MOORREES, Litt.D. S.A., LL.D. Cape.
VICE-CHANCELLOR—Mr. JUSTICE H. S. VAN ZYL, B.A., LL.B.
PRESIDENT OF CONVOCATION—Rev. H. J. PIENAAR, B.A.
PRINCIPAL—Prof. R. W. WILCOCKS, B.A., Ph.D.
REGISTRAR—D. J. KRIEL, B.A.
LIBRARIAN—G. V. MARAIS, M.A., B.Sc. Col.

TEACHING STAFF

Agriculture, v. *infra*

Anthropology, Physical

..... Sr. Lectr.

Bantu Ethnology

Coertze, P. G., M.A., D.Phil. Sr. Lectr.
Schoeman, P. G., M.A., D.Phil. Sr. Lectr.
van Eeden, B. J. C., M.A., D.Phil. Sr. Lectr.
Language, F. J., M.A. Lectr.

Botany

Nel, G. C., B.A., Ph.D. Berl. Prof.
Duthie, Miss A. V., M.A., D.Sc. S.A. Sr. Lectr.
Markötter, Miss E., D.Sc. Lectr.

Chemistry

van der Merwe, C. D., Ph.D. Halle, B.A. (Inorg. C.) Prof.
van der Riet, B. de St. J., Ph.D. Halle, M.A. (Organ. C.) Prof.
du Toit, D. F., D.Chem. Leid., M.A. (Phys. C.) Prof.

Sr. Lecturers

Joubert, D.B., M.Sc., Ph.D. M.I.T.
Joubert, J. M., M.Sc., Ph.D. M.I.T.
Barnardt, J. H., M.Sc. (Bioch.)

Classics

van Braam, P., Litt.D. Utr., M.A. (Latin) Prof.
Edgar, C. S., B.A. Ox., M.A. Edin. (Greek) Prof.
Basson, J., Ph.D. Berl., M.A. (Gk. and Classical Philol.) Prof.
..... Lectr.

Commerce

Schumann, C. G. W., B.Sc., Comm. Dr. Rotterdam Prof.
Thomas, B. J. A. Sr. Lectr.

Dutch and Afrikaans

Pienaar, E. C., Litt.D. Utr., B.A. (Dutch) Jan Marais Prof.
Smith, J. J., B.A. (Afrikaans) Jan Marais Prof.
Malherbe, F. E. J., Litt.D. Amst., M.A. Prof.
van der Horst, A. W., B.A. (Afrikaans) Sr. Lectr.
Kempen, W., D.Litt. Lectr.

Economics

..... Prof.
Pretorius, S. J., M.A., Ph.D. Sr. Lectr.

Education [Prof.

Cillié, G. G., Ph.D. Stras., M.A.
Cruse, H. P., Litt.D. Amst., B.A. (History of E.) Prof.
Taute, B., B.A. (Method) Prof.
..... (Ped. Psych.) Prof.
Donald, M. M., M.A. Sr. Lectr.
Hofmeyr, Miss J. I., B.A. Sr. Lectr.
Heese, J. de V., B.A., M.Ed. Lectr.
Smit, J. N., B.A. Lectr.

Hofmeyr, Miss A. S., B.A. Lectr.
Stockenström, E. C., B.A. Lectr.
..... (Needlework) Lectr.

English

Kirwood, A. E. M., M.A. Melb. Prof.
Walpole, V., M.A. Sheff. Sr. Lectr.
Hurst, H. N., M.A. Ox. Sr. Lectr.
van der Horst, A. W., B.A. Sr. Lectr.
Van Heyningen, C., M.A. Sr. Lectr.

French

Franken, J. L. M., Litt.D. Ghent, M.A. Prof.

Geography

Serton, P., Litt.D. Utr. Prof.
Conradie, D. J., M.A. Sr. Lectr.

Geology

Scholtz, D. L., D.Sc. Prof.
Taljaard, M. S., D.Sc. Sr. Lectr.

German [Prof.

Friedlaender, E., Ph.D. Stras.
Hoge, J., Ph.D. Stras. Sr. Lectr.

Germanic Philology

Bouman, A. C., Litt.D. Utr. Prof.

Hebrew

Keet, Prof. B. B. (v. Theol.) Actg. Lectr.

History

Thom, H. B., D.Phil. Prof.
Wiid, J. A., Ph.D. Mün., M.A. (Hist. of S. Africa) Jan Marais Prof.

Law

Malherbe, W. M. R., LL.D. Leid. Prof.
van Themaat, H. V. L., Dr. Jur., Dr. Jur. Pol. Leiden Lectr.
Yeats, J. P., B.A., LL.B. Temp. Sr. Lectr.
van der Westhuizen, W. M., B.A., LL.B. Temp. Sr. Lectr.

Logic and Psychology [Prof.

Wilcocks, R. W., Ph.D. Berl., B.A.
Jansen van Rensburg, J. A., M.A., D.Phil. Sr. Lectr.
Heese, K. W., M.A., D.Phil. Lectr.

Mathematics

Mackenzie, A. H., M.A. Aberd. and Camb. Prof.
Stegmann, E. T., B.A., D.Sc. S.A. Prof.

Music

Fismer, Marion v.d. L. Prof.

Philosophy, Moral and Polit.

Brümmer, N. J., M.A., B.D. St. And. Prof.

Physical Education

Obholzer, A., Dr.Med., D Phil. Innsbruck Sr. Lectr.
Robra, Miss H. Lectr.
Gonetz, O. Lectr.

Physics [Prof.

Naudé, S. M., M.Sc., Ph.D. Berlin
Malherbe, W. E., B.Sc. Edin., B.A. Prof.
Cilliers, A. C., Ph.D. Frankfurt, M.Sc. Sr. Lectr.
Harvey, S. C., B.A. Lectr.

Physiology

Battaerd, P., M.D. Leiden Prof.
Brink, H. E., D.Sc. Sr. Lectr.

Social Work

Wagner, O. J. M., M.A. Cape T., D.Phil. Prof.
Theron, Miss E., M.A. Lectr.

Statistics

..... Sr. Lectr.

Theology

Gerdener, G. B. A., M.A., Ph.D. Gött. Prof.
van Rooyen, E. E., Th.D. Amst. Prof.
Lategan, D., M.A., B.D. Princet. Prof.
Keet, B. B., Th.D. Amst., M.A. Prof.

Zoology

De Villiers, C. G. S., Ph.D. Zür., M.A. Prof.
Grobbelaar, C. S., Ph.D. Berl., M.A. Sr. Lectr.
du Toit, C. A., Ph.D. Cape Lectr.

Agriculture

Agric. Chemistry

Malherbe, I. de V., Ph.D. Mün., B.A. Prof.
Steenkamp, J. L., D.Phil. Ox. Prof.
du Toit, M. S., B.A., Ph.D. Camb. Prof.

Agric. Economics

Pretorius, W. J., M.Sc. Corn. Prof.
van Wyk, S. P., M.A., D.Phil. Lectr.

Agric. Engineering

Burt, M. C., B.A., B.Sc.Eng. S.A. Lectr. and Hd. of Dept.

Animal Husbandry

Reimers, J. H. W. Th., Agric. Eng. Wageningen Prof.
Swart, J. C., D.Sc.Agric. Lectr.

Dairy Husbandry

Smit, B. J., B.A., Ph.D. Wisc. Lectr. and Hd. of Dept.

Entomology

Potgieter, J. T., Ph.D. Ohio, M.Sc. Prof.
Joubert, C. J., M.Sc.Agric. Lectr.

Field Husbandry

Marais, J. S., Ph.D. Ill., B.A. Prof.
Sim, J. T. R., M.Sc. S.A., B.Sc. Ill., D.Sc. Agric. Lectr.

Forestry [Prof.

Neethling, E. J., B.A., M.F. Yale Lectr.

Genetics

Neethling, J. H., M.Sc. Corn. Prof.

Home Economics

Louw, Miss G. J., B.Sc. Lectr.
Jooste, Miss M. E., M.Sc. Lectr.

Plant Pathology

van der Byl, P. A., M.A., D.Sc. S.A. Prof.
Verwoerd, L., D.Sc.Agric. Prof.
Dippenaar, B. J., D.Sc.Agric. Lectr.

Pomology

Reinecke, O. S. H., B.S.A. Guelph, D.Sc.Agric. S.A. Prof.
Black, M. W., M.Sc.Agric. Lectr.

Veterinary Science

De Villiers, O. T., D.V.Sc., F.R.C.V.S. Lectr. and Hd. of Dept.

Viticulture

Theron, C. J., M.Sc.Agric. Prof.
De Waal, C. T., M.Sc.Agric. Lectr.

GENERAL INFORMATION

For early history, see *Yearbook* for 1929, p. 512. The University was formally opened on April 2, 1918. By Act No. 45, 1926, which came into force on October 1, 1926, the Faculty of Agric. (whilst remaining for academic purposes a faculty of the Univ.) was amalgamated with the Elsenburg School of Agric., situated in the division of Stellenbosch, to form the " Stellenbosch-Elsenburg College of Agric. of the Univ. of Stellenbosch." This closer co-operation with the Dept. of Agriculture aims at the better co-ordination of resources " for the promotion of agricultural science and the development of agriculture within the Union." In the main the scientific activities are centred at the University and the practical experimental and extension work at the Elsenburg Experiment Station (2600 acres).

The College of Agriculture is in charge of the Cereal Experiment Station,

" Langgewens " (1150 acres) in the division of Malmesbury. Principal—Prof. P. A. van der Byl.

FACULTIES. Arts, Law, Education, Science, Theology, Agriculture and Commerce.

DEGREE COURSES, ETC. 3 yrs.—B.A., B.A. in Social Work, B.Sc., B.Comm.; 4 yrs.—B.A. in Music, B.Sc. in Home Economics, B.Sc. in Agric., B.Sc. in Forestry, LL.B. (5 yrs. combined with B.A.); 1 yr. postgraduate—M.A., M.A. in Social Work, M.Sc., M.Sc. in Home Econ., M.Sc. in Agric., M.Sc. in Forestry; M.Comm.; 2 yrs. postgraduate—B.Ed., 3 yrs. postgraduate—M.Ed., B.D.; 2 yrs. after M. degree—D.Phil., D.Litt., D.Sc., D.Comm.; 1 yr. after M.Sc. or 2 yrs. after B.Sc.—D.Sc. in Agric., D.Sc. in Forestry; 2 yrs. after LL.B.—LL.D.; 1 yr. after M.Ed. or 2 yrs. after B.Ed.—D.Ed. Courses are also provided for the Secondary Teachers' and Higher Primary Certificates; also for Certificates in Agric., Comm., Home Econ., Social Work, Nature Study, Physical Education.

FEES. Registration, £3 p.a. (incl. sports and fees payable to Students' Representative Council); Library, 5s. p.a. Tuition per semester for master's or bachelor's degree, £12 (B.D., £6); Doctorate, £8 : 10s. p.a. Laboratory per semester, £5 (max.). Examns.: For Bachelor's degree, £10; for Master's degree, £5; Doctorate, £10; LL.B., £30; B.Sc.Agric., B.Sc. in Forestry, £20. Graduation, £2.

LIBRARY. 66,416 vols.

SPECIAL EQUIPMENT, COLLECTIONS, ETC. The Dept. of Botany possesses a botanic garden and three hothouses containing a large collection of the peculiar xerophytic flora of South Africa. The Dept. of Agricultural Chemistry has a building and equipment for manurial pot-experiments. The Dept. of Bantu Studies is building up a collection of specimens of native art and industry. Zoological and Geological Museums. Vivarium. For Pomology, Viticulture, *see* App. III. B. 4.

SCHOLARSHIPS FOR GRADUATES. Abe Bailey, £300 p.a. for 3 yrs. tenable at Oxford or any other British Univ.; Queen Victoria Memorial (women only), £200 p.a. for 3 yrs; v. also Introductory Chapter.

EXTENSION WORK. Public lectures by members of Staff at Stellenbosch and other places. Regular extension service under Dept. of Agric.

RESIDENCE. There are University hostels for 450 men and 409 women. Board and Residence, £44 p.a. to £54 p.a.

PUBLICATIONS. *The Calendar*; *The Stellenbosch Student* (by Students' Repr. Council); *Annals of the University of Stellenbosch* (by Senate); *Die Stellenbossche Oud-student* (by Senate).

THE YEAR 1937

BENEFACTIONS. Carnegie Corporation, £15,000; Het. Jan Marais Fonds, £8083 : 13s.; Dr. H. Merensky, £1500; Het. Jan Marais Nationale Fonds, £650; Municipal Council, £600; Tehuis-Bestuur, £380; Stellenbosch District Bank, £310; Helpmekaar Vereeniging, £300; S.R.C., University of Stellenbosch, £485 : 16s.; Curators Stellenbosch Football Club, £325; Vroue Komitee, £100; Divisional Council, Stellenbosch, £50; estate L. Burgar, £400. Other contributions, £81 : 15s.

NEW DEVELOPMENTS. A new hostel affording residence for 102 women

students has been completed at a cost of £24,000. A new library building is being built at a cost of £25,000.

NEW POSTS. Professorship in Music, three lectureships in Physical Education.

RESIGNATIONS. Prof. J. H. Botha (Economics), Prof. J. J. Strasheim (Ped. Psych.), Miss A. K. Neethling (Needlework), H. L. Gonin (Classics), A. J. du Toit (Viticulture).

HONORARY DEGREES. *D.Litt.*—Prof. J. D. du Toit. *D.Sc.*—J. L. van Eyssen.

STUDENTS. Full-time: 1303, including 247 graduates. Part-time: 42.

DEGREES. B.A., 77; B.A. in Social Work, 5; M.A., 16; M.A. in Social Work, 1; B.D., 1; D.Phil., 6; D.Litt., 1; B.Sc., 37; B.Sc. in Home Economics, 1; M.Sc., 16; D.Sc., 2; B.Ed., 1; M.Ed., 3; D.Ed., 2; B.Sc. in Agric., 5; M.Sc. in Agric., 5; D.Sc. in Agric., 1; B.Sc. in Forestry, 2; LL.B., 7; LL.D., 1; B.Comm., 8; M.Comm., 1.

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, TRANSVAAL

Founded 1921

Telegraphic address—University, Johannesburg.

CHANCELLOR—The Hon. J. H. HOFMEYR, B.A. Ox., M.A. Cape, D.Sc. Cape T., M.P.

VICE-CHAIRMAN—JUSTICE R. FEETHAM, K.C.

CHAIRMAN OF COUNCIL—Sir WM. DALRYMPLE, K.B.E., LL.D.

PRINCIPAL—H. R. RAIKES, A.F.C., M.A.

PRESIDENT OF CONVOCATION—W. GRANT MACKENZIE, B.Sc. Eng.

REGISTRAR—I. GLYN THOMAS, B.A. Ox.

LIBRARIAN—P. FREER, B.A. Birm., F.L.A.

TEACHING STAFF

Actuarial Science, v. Maths.

Afrikaans and Nederlands

van den Heever, C. M., M.A., D.Litt. S.A., Litt.Docts. Utrecht (Afrikaans) Prof. and Head of Dept.

Krige, J. D. A., M.A. Cape, Ph.D. Ghent (Nederlands) Prof.

Coetzee, A. J., M.A., D.Litt. et Phil. Nymegen Sr. Lectr.

Nienaber, P. J., M.A. S.A., D.Litt. Amsterdam Jr. Lectr.

Anatomy

Dart, R. A., M.Sc., M.D., Ch.M. Syd., F.R.S.S.Af. Prof.

Galloway, A., M.A., M.B., Ch.B. Aberd. D.Sc. Sr. Lectr.

Gillman, J., B.Sc., M.B., B.Ch. Lectr.

Stein, H. B., M.Sc., M.B., B.Ch. Jr. Lectr.

Wells, L. H., M.Sc., M.B.B.Ch. Jr. Lectr.

Macgregor, A. L., M.B., Ch.M. Edin., F.R.C.S. Hon. Demr.

3 Pt.-time Lectrs., 1 Lab. Asst.

Archæology

van Riet Lowe, C., B.Sc. Cape T., F.R.A.I., F.R.S.S.Af. Prof.

Architecture and Quantity Surveying

Pearse, G. E., A.R.I.B.A. Prof.

Martienssen, R. D., B.Arch., A.R.I.B.A. Lectr.

Hendrikz, W. de S. Lectr.

Fassler, J., B.Arch. Jr. Lectr.

Howie, W. D., B.Arch. Jr. Lectr.

Bell-John, H., M.C., F.S.I., L.R.I.B.A. (Quantity Surveying) Pt.-time Lectr.

Art (Fine Arts)

Pearse, Prof. G. E. (Hist. of) Lectr.

Bantu Studies

Doke, C. M., M.A. S.A., Diploma Compar. Bantu, Lond., D.Litt. Prof.

Richards, Audrey I., M.A. Camb., Ph.D. Lond. (Social Anthropol.) Sr. Lectr.

Pienaar, P. de V., Ph.D. Hamb., M.A. (Phonetics) Sr. Lectr.

Ellenberger, Rev. R., O.I.P. Pt.-time Lectr.
Vilakazi, B. W., B.A. S.A., M.A. Language Asst.

Botany

Phillips, J., D.Sc. Edin. Prof.
Moss, Mrs. M., M.A. Wellesley Sr. Lectr.
Gilliland, H. B., B.Sc. Edin., F.L.S. Jr. Lectr.
Weinmann, H., Ph.D., Dip. Agr. Munich, M.Sc. Jr. Lectr.
1 Grad. Demr., 1 Lab. Asst.

Chemistry and Chem. Engineering

Stephen, H., O.B.E., D.Sc. Manc., F.I.C. Prof.
Backeberg, O.G., M.A. Ox., D.Sc., F.I.C. Sr. Lectr.
Robertson, J. B., M.A., B.Sc., Ph.D. Edin., F.I.C. Sr. Lectr.
Krige, G. J. R., M.Sc. Stell., Ph.D. Gött. Sr. Lectr.
Segal, B., D.Sc. Eng., M.I.Chem.E. Sr. Lectr.
Israelstam, S. S., M.Sc., A.I.C. Lectr.
1 Grad. Demr., 1 Lab. Asst.

Classics

Haarhoff, T. J., B.A. Cape, B.Litt. Ox., Litt.D. Amst. Prof.
Wagner, A. I., B.A. Ox. and Cape, LL.B. S.A. and Lond. Sr. Lectr.
Acheson, G. J., M.A. Ox. Lectr.
Davis, S., B.A. Camb., M.A. Jr. Lectr.

Commerce

Richards, C. S., M.Com. Durh. Prof.
Greenwood, H., F.S.A.A., C.A. S.A. Lectr.
Reedman, J. N., M.Com. Leeds, Ph.D. Sheff. Jr. Lectr.

Assistants (pt.-time)

Barnes, W. J., C.A. S.A.
Carine, W., B.Com.
Kneen, J. G., B.A., LL.B.
Marsh, W. E., B.Com., C.A. S.A.
Poulton, C. J. R., B.Sc. Econ. Lond., C.A. S.A., A.C.I.S.
Thomson, J. Ramsay, C.A. S.A.
2 Tutors.

Dentistry, v. *infra*

Economics and Econ. Hist., v. also Hist.

Frankel, S. H., Ph.D. Lond., M.A. Prof.
Pollak, Hansi P., M.A. Lectr.
Guenault, P. H., M.A. Sheff. Jr. Lectr.

Engineering, v. *infra*

English

Greig, J. Y. T., M.A., D.Litt. Glas. Prof.
Lawrie, J. G., M.A. S.A., D.Litt. Sr. Lectr.
Hooper, A. G., M.A., Ph.D. Leeds Lectr.
Jenkins, H., M.A. Lond. Jr. Lectr.

French and Romance

Maingard, L. F., M.A., D.Lit. Lond., L. en D. Paris. Prof.
Papenfus, Ethel M., B.A., Ph.D. Lond. Lectr.
Pratt-Nickels, A., B.A. Texas, M.A. Colorado Hon. Asst.

Geography

Wellington, J. H., B.A. Lond., M.A. Camb. Prof.
Jackson, S. P., M.A. D.I.C. Lond., F.R.Met.S. Lectr.
1 Grad. Demr.

Geology

Gevers, T. W., M.A., D.Sc. Cape T., Dr.Phil. Munich Prof.
Mendelssohn, E., M.A. Harv., M.Sc. Sr. Lectr.
Swiegers, J. U., B.Sc. Stell., M.Sc. Jr. Lectr.
Cooke, H. B. S. Jr. Lectr.

Geophysics

Schönland, B. F. J., O.B.E., B.A. Cape, M.A., Ph.D. Camb., F.R.S., F.R.S. South Af., M.I.E.E. S. Af.
Carnegie Price Prof.

German

Krige, J. D. A., M.A. Cape, Ph.D. Ghent Prof.
2 Pt.-time Assts.

Hebrew

Landau, J. L., M.A. Cape, Ph.D. Vienna Prof.

History

Fouché, L., B.A. Cape, Ph.D., D.Litt. Ghent Prof.
Keppel-Jones, A. M., B.A. Ox. and Cape T. Lectr.
Searle, Joan, M.A. Cape T., Ph.D. Lond. Jr. Lectr.

Law, v. also Bantu Studies

McKerron, R. G., M.A. Aberd., B.A., B.C.L. Ox.
Prof. and Head of Dept.
Balogh, E., Dr.Leg. Budapest
Prof.
Murray, J. C. (Merc. Law) Prof.

Assistants (pt.-time)

Johnson, C. J., B.C.L. Ox., B.A., LL.B.
Murray, I. B., B.C.L. Ox., B.A., LL.B.
Pollak, W., LL.B. Camb., S.J.D. Harv., M.A.
Suzman, A., B.A., B.C.L. Ox., B.A., LL.B.
Wagner, A. I., B.A. Cape and Ox., LL.B. S.A. and Lond.

Mathematics, Actuarial Science and Statistics [Prof.

Dalton, J. P., M.A., D.Sc. St. And.
Constançon, C., Dip. Ing. Zür.
Sr. Lectr.
Kerrich, J. E., M.Sc., Dip.Act. Math. Edin. Sr. Lectr.
Young, F., M.A., Dip.Act. Math.
Lectr.
Hales, A. L., B.A. Camb., M.Sc. Cape T., Ph.D. Lectr.
Sumner, D. B., M.A. Jr. Lectr.

Maths., Applied [Prof.

Le May, H., M.A., B.Sc. Glas.
Bleksley, A. E. H., M.Sc. Stell., D.Sc. Lectr.
Oliver, H. O., M.Sc., Stell.

Medicine, v. *infra*

Metallurgy and Assaying, v. Engineering *infra*

Mining, v. Engineering *infra*

Music

Kirby, P. R., M.A. Aberd., D.Litt., F.R.C.M., F.R.A.I. Prof.
Paff, W., A.R.C.M., L.R.A.M.
Lectr.
1 Pt.-time Lectr.
8 Instrs. (pt.-time).

Philosophy [Prof.

Hoernlé, R. F. A., M.A., B.Sc. Ox.
Farrell, B. A., B.A. Cape T. and Ox. Jr. Lectr.

Physics

Paine, H. H., M.C., M.A. Camb., B.Sc. Lond. and Wales, F.R.S. S.Af., F.Inst.P. Prof.
Evans, G. T. R., B.Sc. Wales
Sr. Lectr.
Cooper, M. A., M.Sc., Ph.D. S.A., F.Inst.P. Sr. Lectr.
Halliday, E. C., Ph.D. Cape T.
Lectr.
Wiles, G. G., M.Sc. S.A., D.Phil. Ox. Jr. Lectr.
Aarts, W. H., M.Sc. Cape T.
Norris, H. W. Lecture Asst.
1 Lab. Asst.

Physiology

Stammers, Dighton, M.A. Camb., D.Sc. S.A. Otto Beit Prof.
Osborn, T. W. B., M.Sc. S.A., D.Phil. Ox., D.Sc. Sr. Lectr.
Radloff, Ellen M., B.Sc. S.A. and Lond., Ph.D. Yale Jr. Lectr.

Suzman, M. M., M.D. Durh., M.R.C.P. Lond. (Clin. P.) Lectr.
Du Toit, F., M.B., Ch.B. Edin. (Gen. Med. Psych.) Lectr.
1 Lab. Asst.

Psychology
MacCrone, I. D., M.A. Cape T. and Ox., D.Phil. Prof.
Biesheuvel, S., M.A. Cape T., Ph.D. Edin. Lectr.

Social Studies
Gray, J. L., M.A. Edin. (Sociology) Prof.
Sonnabend, H., D.Sc. Padua Jr. Lectr.

Surveying
Watermeyer, G. A., B.A. Cape, A.R.S.M. Prof.
Lauf, G. B., B.Sc. (Eng.) Sp. Lectr.
Butler, J. A. P., B.Sc. (Eng.) Jr. Lectr.

Zoology and Comparative Anat.
van der Horst, C. J., D.Sc. Amster. Prof.
Paterson, Nellie F., Ph.D. Camb., D.Sc. Sr. Lectr.
Eloff, G., M.A. S.A., D.Sc. Groningen Lectr.
McEwan, Mary R., M.Sc. Jr. Lectr.
1 Lab. Asst.

Engineering

v. *also* Architecture, Chem. and Chemical Engin. *supra*

Civil Engineering
Sutton, W. G., B.A. Cape, B.Sc. (Eng.) Cape T., M.I.C.E. Prof.
Swart, P. R., B.Sc. Glas. Sr. Lectr.
Magill, E. S., B.Sc. Manit. Jr. Lectr.

Electrical Engineering
Randall, O. R., B.Sc. Lond., Ph.D. Birm., M.I.E.E. City Prof.
Goldsmith, A., B.A. Cape, B.Sc. Eng. Sr. Lectr.
Allan, J. T., B.Sc. (Eng.) Glas. Lectr.
Bozzoli, G. R., B.Sc. Eng. Jr. Lectr.
1 Pt.-time Lectr.

Highway Engineering
Knight, B. H., B.Sc. Lond., M.Inst. C.E., F.S.I. Sen. Research Asst.

Mechanical Engineering
Walker, W. J., D.Sc. Eng., Ph.D. St. And., M.I.C.E., M.I.Mech.E. De Beers Prof.
Gimkey, S. F., M.Sc. (Eng.) Sr. Lectr.
Jensen, A. E., B.Sc. Lond., M.Sc.(Eng.) Sr. Lectr.
Drysdale, J. Lectr.
Straszacker, R. L., Dr.Ing. Charlottenburg, M.Sc. (Eng.). Lectr.
1 Grad. Demr., 1 Instr.

Metallurgy and Assaying
Stanley, G. H., D.Sc. (Eng.), A.R.S.M., F.I.C., M.I.M.E., M.I.M.M. Prof.
Millin, D., B.A. Cape, F.I.C. Sr. Lectr.
Davidson, A. C., B.Sc.Tech. Manc., M.Sc. Birm., M.Inst.Met. Lectr.
Siff, A., M.A. Cape T., A.R.S.M., Jr. Lectr.
Leyman, R. E., B.Sc. (Met.) Wales, M.Inst.Met. Jr. Lectr.
1 Grad. Demr.

Mining
Jeppe, C. W. B., A.R.S.M., D.I.C., M.Sc. (Eng.), M.Inst.M.M. De Beers Prof.
Hoffenberg, S. N., B.Sc. Cape, M.Sc. (Eng.), A.I.M.M. Sr. Lectr.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics [Lectr.

Weinbren, B., M.B., Ch.B. Edin.

Hon. Demonstrators

Crawford, D., B.A. Camb., M.R.C.S., L.R.C.P.

Fisher, M., M.B., Ch.B. Liv.

Feldman, D., M.B., B.Ch.

Dermatology [Lectr.

Gluckman, I., M.R.C.S., L.R.C.P.

Diseases of Children

Mellé, B. G., B.A. Cape, M.A., B.M., B.Ch. Ox., F.R.C.S. Edin. Lectr.

Heymann, S. C., M.B., B.Ch. Hon. Asst. Lectr.

Strawbaum, A. E., M.R.C.S. Eng., L.R.C.P. Lond. Hon. Clin. Tutor.

Diseases of Children, Surgical

Greenberg, M., M.B., Ch.B., F.R.C.S. Edin. Lectr.

Lurie, D., B.M., B.Ch. Ox., F.R.C.S. Eng. Hon. Asst. Clin. Lectr.

Edelstein, J., M.B., Ch.B. Edin., M.Ch. Liv., F.R.C.S. Edin. Hon. Clin. Tutor.

Ear, Nose, and Throat, Dis. of

Pink, W. L., M.B., B.S. Lond., F.R.C.S., L.R.C.P. Lectr.

Campbell, A., M.B., Ch.B., D.P.H., F.R.C.S.Ed. Hon. Clin. Lectr.

Eye, Diseases of the

Meyer, R. C. J., B.A. Cape, M.D., F.R.C.S. Edin., D.O. Ox. Lectr.

Robinson, F. H., M.B., B.Ch. Camb., M.R.C.S. Hon. Clin. Lectr.

Forensic Medicine

Mackintosh, R. H., L.R.C.P. & S. Edin., L.R.F.P.S. Glas. Hon. Prof.

Eagle, P. C., M.B., Ch.B. Cape T. Sr. Lectr.

Melzer, L., M.B., B.Ch. Lectr.

Friedman, J., M.B., B.Ch. Lectr.

Infectious Diseases

Bayer, P., M.D., Ch.B. Aberd., M.R.C.P. Lond. Lectr.

Medical Ethics

Napier, F. H., M.B., B.S. Lond., F.R.C.S.Eng. Lectr.

Medicine

Craib, W. H., M.C., B.A. Cape, M.A., M.D., B.Chir. Camb., F.R.C.P. Lond. Prof.

Gear, J. H., B.Sc., M.B., B.Ch. Sr. Lectr.

Du Toit, P. M., M.B., B.Ch. Jr. Lectr.

Sr. Clin. Lecturers

Bloom, A., M.C., M.D. Edin., M.R.C.P., D.P.H., R.C.P.S. (Oral M.)

Girdwood, R. L., M.D. Edin.

Braun, L. I., M.D. Lond., M.R.C.P.

Clin. Lecturers

Heimann, H. L., B.A. Cape, M.D., B.S. Lond., M.R.C.P.

Balkin, I. J., M.B., Ch.B. Edin.

Gordon, Mary, M.B., B.S. Durh.

7 Clinical Tutors.

3 Asst. Clinical Tutors.

Neurology

Hon. Clin. Lecturers

Geerling, R., M.D. Amst.

Katz, S. M., M.D. Liv., M.R.C.P.

Obstetrics and Gynæcology

Black, J., M.D. Edin., M.C.O.G. Prof.

..... Sr. Clin. Lectr.

Clin. Lecturers

Drury Shaw, G., M.B., B.S. Lond., M.R.C.S., L.R.C.P., F.R.C.S. Edin.

Krige, C. F., M.B., B.Ch. Ox., F.R.C.S. Edin.

Spence Smyth, G., M.D. Dub., F.R.C.P.I , M.C.O.G.
2 Tutors.

Orthopædics

Fouché, F. P., M.D. Edin., F.R.C.S. Hon. Lectr.

Pathology and Bacteriology

Lister, Sir Spencer, LL.D. Cape T., M.R.C.S., L.R.C.P., F.R.S. S.Af. Hon. Prof.
Strachan, A. S., M.A., B.Sc., M.D., Ch.B., Glas., M.R C.P. (Pathol.) Hd. of Dpt. & Sr. Lectr.
Becker, J. G., M.B., Ch.B. Glas., D.P.H., D.T.M. Liv. (Bacteriol. and Parasitol.) Sr. Lectr.
Becker, B. J. P., M.B., B.Ch., D.P.H. Curator of Museum & Asst.
Chatgidakis, C. B., M.B., B.Ch., D.P.H. (Pathol.) Tutor & Asst.

Pharmacology

Watt, J. M., M.B., Ch.B. Edin., F.R.S. S.Af. Prof.
Stephen-Lewis, Florence V., M.Sc., M.D. Manc., M.R.C.S., L.R.C.P. Asst.
Schneider, T. T., M.B., B.Ch. Asst.
1 Lab. Asst.

Physio-Therapy

Woolf, E. B., M.R.C.S., L.R.C.P. Hon. Lectr.

Psychiatry and Mental Hygiene

Russell, Wm., M.C., M.D., D.Psych. Edin. Hon. Prof.
de Vos, P. J. G., M.B., B.S. Durh. Clin. Lectr.
Katz, S. M., M.D. Liv., M.R.C.P. Lond. Hon. Clin. Lectr.
Du Toit, Felix, M.B., Ch.B. Edin. (Gen. Med. Psychol.) Lectr.

Public Health

Thornton, Sir E. N., K.B.E., V.D., M.R.C.S. Eng., L.R.C.P. Lond., D.P.H. Camb. Hon. Prof.
Cluver, E. H., B.A. Cape, M.A., M.D., B.Ch. Ox., D.P.H. Lond. Sr. Lectr.
Laing, G. D., B.Sc., M.B., Ch.B. St. And., D.P.H. (Urban Health Admn.) Lectr.

Radiology

..... Lectr.

Surgery

Brebner, I. W., M.B.E., M.A., M.B., Ch.B. Edin., F.R.C.S. Ed. Prof.
Mason, A. Y., B.Sc., M.B., B.Ch. Sr. Lectr.
Erasmus, J. F. P., M.B., B.Ch. Jr. Lectr.

Sr. Clin. Lecturers

Welchman, W., M.B., B.S. Lond. F.R.C.S. Eng. (Oral S.)
Levin, J. J., M.B., Ch.B. Edin.
Dauth, D. J., M.D. Edin.

Clin. Lecturers

Douglas, J. A., M.D. Edin., F.R.C.S. Edin.
Pocock, W. A., M.B., B.Ch. Camb., F.R.C.S. Eng., L.R.C.P. Lond.
McGregor, A. Lee, M.B., Ch.M. Edin., F.R.C.S. Eng.
Tucker, M., M.B., Ch.B. Cape T., F.R.C.S. Eng.
4 Clinical Assistants

Tropical Medicine

Gear, J. H. S., B.Sc., M.B., B.Ch., D.P.H., D.T.M. & H., Dipl. Bact. Lectr.

Urology

Maisels, I., M.B., Ch.B. Edin., F.R.C.S. Edin. Hon. Clin. Lectr.

Brayshaw, H. C., M.B., Ch.B. Edin., F.R.C.S. Eng. and Edin. Hon. Asst. Clin. Lectr.

Venereal Diseases

Gluckmann, H., M.R.C.S., L.R.C.P. Lectr.

Dentistry

(for subjects of first 2 yrs.—Anat., etc.—and for other subjects common to D. and Medicine—Pathology, *e.g.*—v. *supra*)

Shaw, J. C. M., M.A., B.Dent.Sc. Dub., F.I.C.D., D.D.S. Prof., also Lecturer in D. Anat., Physiol. and Histol.

Anæsthesia, Oral

Foote, H. J., M.B., B.Ch., L.D.S. Edin. Hon. Lectr.

Conservative D.

Abrams, M., L.D.S. Liv. Demr.
Coburn, G., D.D.S. Mich. Demr.
Hunter, B.M., L.D.S. Eng., D.D.S. Penn. Demr.
Shepherd, G. F., L.D.S. Liv. Demr.
Staz, J., L.D.S., R.C.S. Eng., H.D.D. Edin., D.D.S. Demr.
Shaw, Prof. J. C. M. Demr.

D. Dis. of Children

Cassel, D., B.A. Cape, D.D.S. Mich. Hon. Lectr.

D. Ethics and Jurisprudence

Eccles, B. J., L.D.S., R.C.S. Eng., M.R.C.S., L.R.C.P. Hon. Lectr.

D. Histology

Staz, J., L.D.S., R.C.S., Eng., H.D.D. Edin., D.D.S. Demr.

D. Histopathology

Friel, G., B.A. Dub., L.D.S., R.C.S.I. Demr.

D. Mechanics

Berry, T. B., B.Sc.(Eng.) Cape, L.D.S., R.C.S. Eng. Lectr. and Demr.

D. Prosthetics

Berry, T. B., B.Sc.(Eng.) Cape, L.D.S., R.C.S. Eng. Lectr. and Demr.
Cassel, D., B.A. Cape, D.D.S. Mich. Demr.
Jackson, W. S., L.D.S. Edin. Demr.

Orthodontia

Braun, M. F., L.D.S., R.C.S. Eng., D.D.S. Penn. Lectr. and Demr.

D. Radiology

Hossack, F. A., L.D.S., R.F.P.S. Glas. Lectr. and Demr.

Operative D.

Hunter, B. Mitchell, L.D.S., R.C.S. Edin., D.D.S. Penn. Lectr.

D. Pathology [Lectr.

Friel, G., B.A. Dub., L.D.S. R.C.S.I.

D. Surgery

Friel, G., B.A. Dub., L.D.S., R.C.S.I. Demr.
Gottlich, S. F., Tandarts, Utrecht. Sr. Demr.
Eccles, B. J., L.D.S., M.R.C.S. Eng., L.R.C.P. Lond. Demr.
Shaw, Prof. J. C. M. Demr.
Wilson, W. A., L.D.S. Eng. Demr.

D. Therapeutics

Breyer, J. H., Tandarts, Utrecht. Lectr. and Demr.

ASSOCIATED INSTITUTIONS. There are several hospitals as well as the South African Institute for Medical Research (v. App. III. B. 4) in which students of Med. carry out a part of their curriculum.

GENERAL INFORMATION

For early history, *see Yearbook* for 1929, p. 518. In 1921 University College, Johannesburg, was reincorporated as the University of Witwatersrand,

Johannesburg, with effect from March 1, 1922. This development was made possible partly by support from the public, including contributions by the Chamber of Mines (£50,000), Standard Bank of S.A., Nat. Bank of S.A., Central Mining and Investment Corporation, and De Beers Cons. Mines, Ltd. (£10,000 each), Sir Otto Beit (£8000), and many others, amounting in all, up to the end of 1922, to over £220,000. The Municipality provided a fine site (100 acres) at Milner Park, a mile from the centre of the town. Expenditure on buildings and lay-out up to 31st Dec. 1937 amounted to £769,045. LIBRARIES: Central, and several departmental. MUSEUMS: Several departmental.

FACULTIES. Arts, Sc., Med., Engin., Comm., Law, Dentistry.

DEGREES. B.A., B.Sc. or B.Mus., 3 yrs., Hons. 4 yrs.; B.A. in Social Studies, 4 yrs.; M.A. or M.Sc., 1 yr. after Hons. and Thesis; D.Litt., D.Phil., LL.D., or D.Sc., Thesis; B.Ed., 2 yrs. (post-grad.); M.Ed., Thesis; B.Com., 3 yrs.; M.Com., Exam. and Thesis; B.Sc. (Eng.), 4 yrs.; M.Sc. (Eng.), D.Sc. (Eng.), Thesis; B.Arch., 5 yrs.; M.Arch., Thesis; LL.B., 3 yrs. (post-grad.); LL.M., LL.D., Thesis; M.B., B.Ch., 6 yrs.; M.D. or M.S., Thesis and Examn.; B.D.S., 5 yrs.; D.D.S., Thesis. An alternative course for the B.Sc. in Mining and Metallurgy provides for employment in the mines of students in their 4th year.

DIPLOMAS, ETC. German, Geography, Philosophy, Music, Bantu Studies, Social Studies, Public Health, Tropical Medicine and Hygiene, Psychological Medicine, Nursing, Architecture, Quantity Surveying, Actuarial Maths., Economics of Local Govt. and Public Admin. COURSES for Teachers' Certifs., Law Certif., Civil Service Law examn., Land Surv., Professional Examns. in Accounting and Auditing.

FEES from £120 (B.A.) to £345 (M.B., B.Ch.).

SCHOLARSHIPS FOR GRADUATES. Chamber of Mines, £350 for 1 yr.; Adolph Wagner (Engin.), £150 tenable in S. Africa or overseas; University Council, 2 of £225 for 2 yrs.; Erleigh, 2 of £100-£200 p.a. (Sci. and Med.), 1-2 yrs.; Witwatersrand Council of Education, 2 of £250 for 2 yrs.; Ainsworth (Modern Hist.), minimum £150 p.a. for 2 yrs. plus £50 for books, awarded every 3rd yr.; v. also Introductory Chapter.

RESIDENCE. Hostels for 160 men and 85 women. Charges, £65 p.a.

UNIV. EXTENSION. Public lectures under joint auspices of Univ. and W.E.A. Afternoon and evening courses for teachers and others in regular employment, who may by attending them qualify for B.A. degree (4 yrs.). Part-time course for B.Com. (4 yrs.).

PUBLICATIONS. *Calendar*; *Bantu Studies*; *Umpa* (S.R.C.).

THE YEAR 1938

BENEFACTIONS. The late Mr. A. E. Capelli, £50,000; Mr. Wolf Hillman, £25,000 (for new Engin. Building); Union Government (annual grant), £97,509 for current expenditure and interest and redemption of loans, £900 for post-grad. scholarships; Johannesburg Municipality, £12,000 for general purposes, £1000 for City Chair of Elect. Engin., £250 for Univ. Dental Hospital, £750 for teaching of Public Admin., £6000 for undergrad. schols. and bursaries; other Witwatersrand Municipalities, £732 for bursaries; Witwatersrand Council of Education, £86 for general purposes, £1000 for bursaries; Witwatersrand Univ. Committee (from public subscription), £5000 for general purposes; Transvaal Society of Accountants, £333; various other bodies, £1968 for scholarships and prizes.

NEW POSTS. Special (Senior) Lectureship in Surveying; Junior Lectureships in Social Studies, Physics, Applied Maths., Geology, Surveying, Metallurgy, Mech. Engineering.

VISITING LECTURER. Prof. R. Plank (Karlsruhe).

RESIGNATIONS. E. V. Swart (Eng.); H. A. Shannon (Econ.); G. G. Cillié (Applied Maths.); Miss M. E. H. Welsh (Geol.); Miss M. G. Breyer-Brandwyk (Pharmacol.); R. J. Fleming (Surgery); Miss J. Don (Obst. and Gynecol.); L. Fourie (Public Health); E. Crosthwaite (Psychiatry); A. D. Clark (Civil Eng.); M. Emdon and C. G. Thompson (Commerce).

RETIREMENT. Prof. W. Gordon Grant (Obstetrics and Gynæcology).

DEATH. H.R.H. Prince Arthur of Connaught, Chancellor.

HONORARY DEGREES. *D.Sc.*—W. K. Gregory, M. Hellman and A. W. Rogers.

STUDENTS. Full-time: 1950. Part-time: 446.

DEGREES. B.A. (pass), 70; B.A. Hons., 13; M.A., 1; D.Phil., 1; B.Mus., 3; M.Mus., 1; B.Arch., 4; B.Com., 26; M.Com., 1; LL.B., 8; B.Sc. (pass), 28; B.Sc. Hons., 10; D.Sc., 2; B.Sc. (Eng.), 68; M.Sc. (Eng.), 1; M.B., B.Ch., 62; M.D., 2; B.D.S., 4; Diplomas, 16 (including 9 D.P.H.).

THE UNIVERSITIES OF INDIA

UNIVERSITIES were first established in British India as a result of the great parliamentary inquiry into the condition of India which preceded the confirmation of the Company's Charter in 1853. It was resolved to create a properly articulated system of education from the Primary School to the University. The London University, at that time a purely examining body, which admitted to its tests only the students trained in affiliated institutions—the latest device of educational statesmanship —was taken as a model. " It had been suggested, in London, by conditions which resembled those of Bengal. . . . Its defects were not yet apparent, though it was to be profoundly modified by London itself four years later. It had the advantage of costing very little. It enabled all the existing collegiate institutions, whether Government or missionary, to be worked into the same scheme, and promised to provide a quite impartial mode of testing the qualifications of students for Government service. Above all, it gave freedom to the non-Government Colleges—all, at that date, mission colleges—to carry on their work in their own way, and offered them help from public funds for the secular side of their work " (*Report of the Calcutta University Commission, 1917–19*). In pursuance of this policy, Universities were founded in 1857 at Calcutta, Bombay, and Madras. The framers of the policy, while contemplating that the ordinary subjects of study should be dealt with by the Colleges, did not intend that the Universities should have no teaching functions, but in point of fact until about 1914 they concerned themselves solely with examinations. In 1882 and 1887 the Universities of the Panjab and Allahabad were established on similar lines. A Commission was appointed in 1902 to examine the working of the system, and the Universities Act of 1904 was designed to give effect to its recommendations as to reorganization of the government of the Universities, their assumption of teaching functions, and more effective supervision by them of the Colleges, as well as more exacting conditions of affiliation. University Professorships, Readerships, and Lectureships have accordingly been constituted in the above-named Universities, but mainly for advanced (post-graduate) courses and, except in Calcutta, only on a very small scale. Benares (Hindu), Mysore, and Patna Universities were established in 1916 and 1917. The Osmania University, Hyderabad, Deccan, was also established in 1918, though actual tuition began only in Aug. 1919.

The foundation, structure, aims and efficiency in working of institutions for higher education in India have b en subjected to exhaustive re-examination by the Calcutta University Commission, 1917–19. In the University of Calcutta itself but little progress has been made towards giving effect to the far-reaching and fundamental changes recommended by this body, but their recommendations have to a great extent determined the lines on which a number of new Universities were established in 1920 and following years. Aligarh, Dacca, Lucknow,

and Allahabad may be described as unitary, teaching and residential Universities; and the University of Agra was created under an Act of the United Provinces of 1926 for the purpose of affiliating all the colleges previously associated with the University of Allahabad which had not been transferred to the Nagpur University (*see* below). Delhi has constituent colleges which are not wholly controlled by the University and may perhaps be described as residential and "semi-unitary." Patna approaches them in type. The Patna University Act of 1917 was amended by an Act in 1932 so as to make the constitution correspond with existing conditions. Part of the teaching in Delhi is carried on by the Univ. itself. The Nagpur University was established by legislation in 1923 and took over a number of colleges previously affiliated to Allahabad, to which have been added an Agricultural College. The University itself carries on the teaching of law. In 1926 an Act of the Madras Legislative Council provided for the establishment of an affiliating University at Bezwada (the Andhra University). The headquarters of Andhra University have been moved to Waltair. Bombay University was reorganized in 1928, and the new Act came into force in 1929. The report of the Bombay University Reform Committee (published 1925) recommends the establishment of a University at Poona. The latest additions to the universities of India are the Annamalai University of Annamalainagar in Southern India, established by an Act of the Madras legislature of 1928 as a unitary, resident and teaching University, and the University of Travancore, founded in 1937.

The *Review of Growth of Education in British India* * by the Auxiliary Committee on Education appointed by the Indian Statutory Commission (generally referred to as the Hartog Report) gives an account both of recent progress in University education in India and of some of its main defects. In the smaller colleges and residential Universities the old system of mass teaching has been supplemented by valuable tutorial work, especially for Honours students. Research work, which barely existed in Indian Universities when the Islington Commission reported in 1915,† now finds its place in all the Indian Universities and the character of the staff in the unitary Universities and in central organizations of the affiliated Universities has been largely transformed. The laboratories and libraries have been greatly improved; "but the majority of University libraries are inadequate and all need great additions." There are signs that the University and College authorities are beginning to realize more fully the value of corporate life and social activities.

The Universities are turning out large numbers of graduates who cannot find employment. According to the Hartog Report "they are overcrowded with men who are not profiting either intellectually or

* Interim Report of the Indian Statutory Commission, 1929; Cmd. 3407. H.M. Stationery Office.

† See Note by the Earl of Ronaldshay, Sir V. Chirol, and Mr. H. A. L. Fisher in Report of Royal Commission on the Public Services in India, vol. i. p. 109; Cd. 8382. H.M. Stationery Office, 1917.

materially by their university training"; and it is suggested that students who now go to Universities without being really fitted for higher work should be diverted in large numbers at an earlier stage to careers better suited to their capacity; and that if this were done money would be set free for more profitable educational uses, and the training of the best men could be appreciably improved.

CONSTITUTION. (*a*) The Universities of Calcutta and the Panjab are still governed by the constitution framed under the Act of 1904.* But in its application to Calcutta the Act of 1904 is modified by Acts II. of 1905, XI. of 1911, and VII. of 1921; and the University has, under its existing powers, created important Post-graduate Councils in Arts and in Science, each with an Executive Committee. The Academic Council recently instituted by the Panjab University has been invested with important powers subject to the general control of the Senate. The constitution of the University of Madras was modified by local Acts, VII. of 1923 and XII. of 1929, with a view to establishing a teaching and residential University at Madras, while enabling the University to continue to exercise due control over the quality of the teaching given by colleges which are to constitute the University or are affiliated to it (Preamble to Act of 1923). Under these Acts there were constituted an Academic Council, Faculties, and Boards of Studies. A Council of Affiliated Colleges established in 1923 was abolished in 1929. The University of Bombay is governed by Act IV. of 1928, amended in detail by subsequent Acts, especially Act XV. of 1930. The Senate comprises the Chancellor, the Vice-Chancellor, and other Fellows, the executive government being vested in a Syndicate of 18 or 19 members, including the Vice-Chancellor and the Director of Public Instruction, and members (largely College teachers) elected by the Senate or the Faculties. There are also an Academic Council and a Board of Post-graduate Studies. The constitution and abolition of Faculties rests with the Senate.

(*b*) The new Universities in British India have a constitution modelled generally on that recommended for Calcutta by the Calcutta University Commission: (1) A large body called the Court, on which are represented the chief interests of the community either by election or by nomination, and including a number of ex-officio members, makes statutes and makes recommendations on the financial accounts and the annual report submitted by the Executive Council; (2) the Executive Council of some 15-20 members, elected partly by the Court, partly by the Academic Council, and including ex-officio members, is the executive authority in regard to finance and University appointments, and exercises all residual powers; (3) the Academic Council, which consists almost entirely of University teachers, is responsible for the regulation and maintenance of standards of education and examination within the University, and for the initiation of all changes in academic matters. The executive officers of the new Universities are, as under the older constitution, the Chancellor, the Vice-Chancellor, and the Registrar, but

* A Commission has been appointed to report on University education in the Panjab.

the Governor-General is now in nearly all cases introduced as the Visitor or Lord Rector, with powers of inspection.

ADMISSION TO THE UNIVERSITIES. Most of the Indian Universities admit students who have passed the Final Examn. of the High Schools, and 4 years are spent at a College affiliated to the University before the student is qualified to sit for the Bachelor's Degree Examn., namely, 2 years before the Intermediate Examn. and 2 after. The Universities of Allahabad, Aligarh, Dacca, Lucknow, and Agra regard the pre-Intermediate years not as part of, but as preliminary to, University study.

Applications for AFFILIATION are generally submitted by the Syndicate, which must be satisfied as to the managing agency, teaching staff, provision for residence of students, equipment, financial resources, suitability of fees, etc. If granted, the courses in respect of which the College is affiliated are specified. Affiliated Colleges must comply with requisitions by the Syndicate for information, submit themselves to inspection under the Syndicate's orders, and take such action as may be ordered consequent upon such inspections. In Calcutta and Panjab Universities affiliation questions are dealt with by the Senate. The powers of affiliation by the University can in some Universities only be exercised subject to the approval of Government.

TERMS. University examns. are, with few exceptions, held between March and June. Admissions are made as a rule in June or July, though in many cases regular work does not commence till Sept. or Oct.

DEGREE COURSES. In *Arts and Science* a 2 yrs.' course leading to an Intermediate examn. is followed by a further 2 yrs.' course for the Bachelor's degree. English is generally a compulsory subject for the B.A., and in some cases for the B.Sc.; and is generally the medium of examination in all Universities except Osmania, where the medium is Urdu. Aligarh, Allahabad, Andhra, Annamalai, Benares, Dacca, Lucknow, Madras and Mysore give Honours degrees in Arts and Science requiring an additional year of study. Elsewhere the Honours degree is generally given on papers additional to those for the Pass. Agra and Osmania give no Honours degrees.

The Intermediate courses are under the control of the Universities except at Agra, Allahabad, Dacca, and Lucknow, where they are controlled by Boards of Intermediate Education.

Agriculture. For the B.Ag., Bombay, Nagpur, and Panjab give a 4 yr. course subsequent to matriculation. For the B.Sc. (Ag.) Madras gives a 3 yr. course, and Agra and Allahabad a 2 yr. course after an Intermediate examn. in Agriculture.

Commerce. The B.Com. course offered at Agra, Allahabad, Calcutta, Dacca, Lucknow, and the Panjab is generally a 3, in some cases a 2 yr., course after passing the Intermediate examn. in Arts. In Bombay it is a 4 yr. course after Matriculation.

Education and Teaching. Degrees and Diplomas are given at the Universities of Aligarh, Andhra, Benares, Bombay, Calcutta, Dacca, Madras, Mysore, Nagpur, Osmania, Panjab, and Patna. The titles given

for approximately equivalent qualifications differ in different Universities.

A degree open to graduates in Arts and Science after a 1 yr. course is called the B.T. at Aligarh, Benares, Bombay, Calcutta, Dacca, Mysore, Nagpur, and the Panjab, B.Ed. at Andhra, L.T. at Madras, Dip.Ed. at Osmania and Patna. At Patna the course for the B.Ed. extends over 2 yrs. after graduation. Lucknow gives a Diploma in Teaching to women graduates after a 1 yr. course. At Dacca and Calcutta the L.T. is not a degree, but a diploma open to undergraduates, after one and two yrs.' training respectively, subsequent to the passing of an Intermediate examn. The Calcutta regulations are under revision.

Engineering. For B.Sc. (Engineering) Benares gives a 5 yr. course after Intermediate examn. in Science; for the B.E. or B.Sc. (Engineering) or B.C.E., Calcutta, Madras, Mysore, Osmania and Patna have a 4 yr. course, and Bombay a 2 yr. and two terms course after Intermediate examn. in Science or equivalent examn. Benares gives a B.Sc. (Engineering) in Mining and Metallurgy after a 4 yr. course.

Law. The LL.B. (or B.L.) course covers 2 yrs. (Calcutta and Dacca, ordinarily 3 yrs.) after graduating in Arts or Science. Degrees in Law are not at present given at Andhra, Annamalai, and Mysore.

Medicine. The M.B., B.S. course generally covers 5 yrs. (Bombay, 4½ yrs., Calcutta, 6 yrs., Patna, 6½ yrs.), starting from an Intermediate examn. in Science or some equivalent examn. Besides the M.B., B.S. course an L.M. and S. course is given by Osmania, of 5 yrs. after Matricn., and an L.M.P. course, by Mysore, of 4 yrs. after Matriculation. Medical degrees are given in the Andhra, Lucknow, Madras, and Panjab Universities, as well as in those above referred to.

HIGHER DEGREES. The M.A. and M.Sc. (for which there are in some Universities two examns.) can generally be taken by bachelors after a 2 yrs.' course, or after 1 yr. by bachelors who have taken a 3 yr. honour course. In Mysore a 2 yrs.' course is compulsory for all candidates. Madras gives an "M.A. in research" and an M.Sc. degree, by thesis. In Madras the M.A. degree was formerly conferred on Honours graduates after a certain interval; and Annamalai follows the same procedure.

In Arts, the D.Litt. degree may be taken by thesis at Allahabad by M.A.s of 3 yrs.' standing (at Panjab by M.A.s of 2 yrs.' standing), by thesis, after an advanced course of study of 2 yrs. At Benares it may be taken by thesis by M.A.s of 2 yrs.' standing. At Lucknow and Mysore the degree is honorary.

The Ph.D. degree may be taken by thesis by M.A.s of 3 yrs.' standing at Calcutta, Dacca, Lucknow, Madras, Nagpur, and Patna.

Allahabad gives a D.Litt. in Economics under conditions similar to the D.Litt. in Arts.

The D.Sc. may be taken by M.Sc.s (in some cases, by M.A.s in Science) of 3 yrs.' standing; by thesis at Allahabad, Calcutta, Dacca, Lucknow, Madras, Nagpur, and Patna; at Benares and Panjab by M.Sc.s (or M.A.s) of 2 yrs.' standing. At Mysore the degree is honorary.

A degree of M.Ag. may be taken by thesis at Bombay by a B.Ag.

or L.Ag. of 3 yrs.' standing. A degree of M.Sc. (Ag.) may be taken by thesis at the Panjab by a B.Sc. (Ag.) of 2 yrs.' standing.

A degree of M.Com. may be taken at Bombay by a B.Com. of 2 yrs.' standing.

A degree of M.T. may be taken by thesis at Dacca by a B.T. of 2 yrs.' standing; and a degree of M.Ed. may be taken, similarly, at Andhra and Patna by a B.Ed. of 2 yrs.' standing.

The LL.M. (or M.L., as the case may be) of Allahabad, Benares, Bombay, Dacca, Lucknow, Madras, and the Panjab may be taken by graduates in Law of 2 yrs.' standing; in Delhi and Nagpur by those of 3 yrs.' standing. No interval is prescribed at Aligarh, Calcutta, or Patna. The LL.D. (or D.L., as the case may be) is generally given by thesis and open to LL.M.s (or M.L.s) of prescribed standing: at Delhi and Lucknow, 5 yrs.; Dacca, Nagpur, and the Panjab, 3 yrs.; Benares, Calcutta, Madras, and Patna, 1 yr. At Allahabad the LL.D. is given by thesis to LL.M.s who have had 5 yrs.' professional practice.

The degrees of M.D. and M.S. (Master of Surgery) may be taken by graduates in Medicine and Surgery after intervals varying in different Universities of from 1 to 5 yrs. after graduation, mostly by examination, but in some cases by thesis; varying requirements in regard to hospital and professional practice are imposed. Bombay gives the degrees of Bachelor of Hygiene (after a 1 yr. course) and of Doctor of Hygiene (after a further 2 yr. course) to medical graduates; Madras gives a Bachelor of Sanitary Science after a 1 yr. course, and Calcutta and Lucknow give a D.P.H. after a prescribed course of study, to medical graduates.

Bombay gives a Diploma in Ophthalmology, Calcutta gives the degree of Master of Obstetrics, and Madras gives a Diploma in Midwifery to medical graduates.

At Bombay, the degree of Master of Engineering is given by thesis or examn. to Bachelors (or Licentiates) of Engineering who have practised their profession for 3 yrs. after graduation. At Calcutta, a D.Sc. in Engineering is given by thesis.

Oriental Learning. Besides courses for degrees in Arts in classical oriental languages and literatures (Sanskrit, Arabic, and Persian) and in vernaculars, conducted more or less on Western lines, there are degrees in Oriental Learning given in some Universities with English titles, in others with oriental titles, in some with both. The Panjab has a 2 yrs.' F.O.L. course subsequent to Matricn., followed by a 2 yr. B.O.L. (Bachelor of Oriental Learning) course and a 1 yr. M.O.L. course. A D.O.L. is open by thesis to M.O.L.s of 1 yr.'s standing. The University also gives diplomas and "Literary Titles" in Oriental Learning. Andhra, Annamalai and Madras give "Titles" and certificates of proficiency, and offer a degree of M.O.L., by thesis, to candidates possessing certificates of proficiency. Benares has a Faculty of Oriental Learning which confers a first degree *Madhyama Pariksha* after a 3 yrs.' course, a second degree of *Shastri*, after a further 3 yrs.' course, and the degree of *Shastracharya* by thesis, 2 yrs. after the second degree.

Theology. Five different degrees in Hindu theology are awarded by the University of Benares, open only to Hindus after courses extending over a large number of years. Aligarh awards the degrees of Bachelor,

Master, and Doctor in (Islamic) Theology, and Osmania has a 6 yr. course leading up to the B.A. in (Islamic) Theology, and a 2 yr. course for the M.A.

COST OF LIVING. The cost of living varies in different Universities. The total cost (according to the *Handbook of Indian Universities*), including tuition, residence, food, etc., is as follows in certain residential Universities: Aligarh, Rs. 28 to Rs. 35 p.m.; Benares, Rs. 35 to Rs. 50 p.m.; Dacca, Rs. 20 to Rs. 22 p.m.; Osmania, about Rs. 180 per annum. Exclusive of tuition, the cost of living (*i.e.* of food and residence) is stated to be in Bombay about Rs. 50 p.m.; in Calcutta, Rs. 21 to Rs. 30 p.m.; Delhi, Rs. 15 to Rs. 30 p.m.; Mysore, Rs. 200 for 9 months; Osmania, Rs. 180 per annum.

[*Note.* 1 Rupee = 1s. 6d. approximately.]

STATUS OF THE NEW UNIVERSITIES. The Universities of Aligarh, Benares, Dacca, Delhi, and Patna have been incorporated by Acts of the Indian Legislature, and those of Annamalai, Andhra, Agra and Lucknow by Acts of provincial legislatures. Their degrees and examns. are recognized by the Government of India to be equal in value to those of the older Universities for the purpose of admission to public services.

Mysore and Osmania were established by local legislation in Indian States, and are not within the jurisdiction of the Government of India. The degrees of Mysore have been recognized by the Universities of Bombay, Calcutta, the Panjab, and Madras, and most of the new Universities, and by the Government of India. Osmania and Mysore degrees have been recognized by the Government of India as equivalent to those of the Universities established by law in India.

Professor Karve's scheme for an Indian University for women with headquarters at Poona has organized there, and, through affiliated institutions, elsewhere, instruction through the Indian vernacular languages adapted to the special needs of women. It is on entirely independent lines.

NUMBER OF STUDENTS in March 1936 in the 334 Arts and Professional (including 101 Intermediate and 2nd Grade) Colleges was 115,224, including 6246 women.

RESIDENCE. In 1935–36 31,481 students (including 1197 women) of Arts and Professional Colleges were accommodated in approved hostels or boarding-houses.

CONFERENCES. In April 1920 a Committee was formed for drafting an outline of the functions and constitution of an Association of Indian Universities. The project was further advanced at the Congress of Universities of the British Empire at Oxford in July 1921, and at a Conference of Indian Universities held at Simla in May 1924.

INTER-UNIVERSITY BOARD. This Board was formed in accordance with a resolution passed by the Simla Conference of May 1924. Chairman, 1938-39: Diwan Bahadur S. E. Runganadhan, M.A., Vice-

Chancellor of the University of Madras. Secretary: Prof. N. K. Sidhanta, M.A., Lucknow University. The Board will meet in Bombay in 1939.

Publications. *Handbook of Indian Universities* (1938, Rs. 2, or 3s. 6d.); *Facilities for Oriental Studies and Research at Indian Universities* (Re. 0-8-0); *Facilities for Scientific Research at Indian Universities* (Re. 0-12-0), *Biological Outlook on Life and its Problems*, by J. Arthur Thomson, M.A., LL.D., Regius Professor of Natural History, University of Aberdeen (Re. 0-2-0); *Third Conference of Indian Universities* (Re. 1); *Training of Teachers in Indian Universities* (Re 0-8-0); *Bibliography of Doctorate Theses in Science and Arts accepted by Indian Universities from January 1930* (Re. 0-8-0).

The VICEROY'S GOLD MEDAL, instituted in 1926 by Lord Irwin, is open for competition, annually, to undergraduates of any University incorporated by law in British India. It is awarded for the best essay on some practical problem of the day.

INDIAN STUDENTS AT UNIVERSITIES IN GREAT BRITAIN AND IRELAND. The Education Department of the Office of the High Commissioner for India, India House, Aldwych, London, W.C.2 (Secretary: Thomas Quayle, C.I.E., M.A., D.Lit.; Educational Officers: P. K. Dutt, M.A., M.Sc., A.I.C.; R. M. J. Knaster, B.A.; V. I. Gaster, B.A.; N. B. Ker, M.A., LL.B.; Miss C. H. Bose, M.A.), furnishes information and advice on educational and kindred matters to Indian students who come to this country to complete or supplement their education. There are Local Advisers at the University of Manchester (J. K. Wood, D.Sc., College of Technology, Whitworth Street) and at Glasgow (R. M. Brown, D.Sc., Ph.D., M.I.M.E., Engineering Department, The University). At Edinburgh, J. E. Mackenzie, Ph.D., D.Sc. (Pollock Memorial Hall, Marshall Street), is the University's Adviser to Indian students. At Oxford, Indian students may secure information and advice from H. S. Williamson, M.A., Indian Institute, Broad Street, Secretary to the Delegacy for Oriental Students; and at Cambridge, from R. B. Whitehead, M.A., 22 Fitzwilliam Street, Secretary to the Inter-Collegiate Indian Students' Committee.

Indian students who propose to proceed abroad for further study are strongly advised to consult the University Bureau or Advisory Committee of their Province, where they can obtain full information about British and foreign universities. The names and addresses of the secretaries are as follows: Ajmere—Superintendent of Education, Delhi and Ajmere-Merwara, Students' Advisory Committee, Rajputana, Delhi; Aligarh—S. A. Jalil, M.Sc., Information Bureau, Muslim University, Aligarh; Allahabad—The Director of Public Instruction, Allahabad; Bombay—Khan Bahadur F. M. Dastur, M.A., I.S.O., University Information Bureau, University Building, Fort, Bombay; Calcutta—P. N. Ghosh, M.A., Ph.D., Sc.D., University Students' Information Bureau, Senate House, Calcutta; Cuttack—B. N. Rohatgi, M.A. Pat., B.Sc. Lond., Information Bureau, Ravenshaw College, Cuttack, Orissa; Dacca—M. I. Borah, M.A., B.L. Dac., Ph.D. Lond., University Students' Information Bureau, Dacca, Bengal;

Delhi—S. N. Mukarji, M.A., Indian Students' Advisory Committee, Delhi; Gauhati—J. Borooah, Bar.-at-Law, Indian Students' Advisory Committee, Gauhati, Assam; Karachi—K. L. Hingorani, Students' Advisory Committee, Sind; Lahore—M. G. Singh, M.A., Punjab University Foreign Information Bureau, Lahore; Madras—Capt. M. Abdul Hamid, M.B.E., B.A. Ox., University Students' Information Bureau, The University, Madras; Mysore—V. Gopalaswami Aiengar, M.A., Registrar, Mysore University, and Secretary, University Students' Information Bureau, Maharaja's College, University of Mysore; Nagpur—K. R. Pandya, University Information Bureau, Nagpur University, Nagpur; Patna—M. Q. Doja, B.A. Camb., B.Sc. Pat., F.C.S., University Students' Information Bureau, Patna, Bihar; Peshawar—T. C. Orgill, M.A., I.E.S., University Students' Advisory Committee, Peshawar, N.W.F.P.

The High Commissioner for India is prepared at the request of parents and guardians in India to make arrangements for the supervision of the studies and personal welfare of a limited number of Indian students, and for the administration of funds remitted to him for the purpose. The Secretary to the Oriental Delegacy at Oxford, the Secretary to the Inter-Collegiate Indian Students Committee at Cambridge, the University Adviser at Edinburgh, and the Local Advisers to Indian Students at Manchester and Glasgow, act on behalf of the High Commissioner in the case of students proposing to study at those centres. Inquiries may be addressed either direct to the addresses given above or through the Office of the High Commissioner for India, Education Department. The Department publishes the *Handbook for Indian Students—a Guide to the Facilities for University and Professional Studies and Training in the United Kingdom*, the Eighth Edition of which was published late in 1938. An annual Report on the work of the Department is also published, copies of which may be obtained from the office of the High Commissioner or through the agents for the sale of Government of India publications.

The Hyderabad Government has a Scholarship Committee to regulate the grant of scholarships and give necessary information to students proceeding out of India, and has a special paid guardian for Hyderabad students (B. C. McEwen, M.C., B.Sc. Lond., Brandon House, Rowfant, Crawley, Sussex) to look after and report about their progress whilst in Europe.

Note

The arrangement of Oriental names in the directory sections has been adopted for convenience of reference and for indexing purposes.

AGRA UNIVERSITY

Founded 1927

VISITOR—THE CENTRAL GOVERNMENT OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES

VICE-CHANCELLOR—PRAFULLACHANDRA BASU, M.A., Ph.D., B.L., Principal, Holkar College, Indore.

REGISTRAR—PANDIT SHYAM SUNDAR SHARMA, M.A.

AFFILIATED COLLEGES

[M.A., etc., after name of College = teaching up to M.A., etc., standard.]

AGRA, *Agra College.* M.A.; M.Sc.; LL.B. Principal and Prof. of *Chemistry*—H. Krall, B.A. Dub., B.Sc., Dip. Educ., F.I.C.

AGRA, *St. John's College.* M.A.; B.Com.; M.Sc. Under the general control of the Church Missionary Society. Admits non-Christians, but is especially for Christians. Principal—Rev. Canon T. D. Sully, M.A. Ox.

AJMER, *Government College.* B.A.; B.Sc. Principal—P. Seshadri, M.A. Mad.

AJMER, *Mayo College.* B.A. Principal—V. A. S. Stow, M.A., C.I.E., V.D., I.E.S.

BAREILLY, *Bareilly College.* M.A.; M.Sc.; LL.B. Principal—A. C. Dutt, M.A. All. and Luck., M.R.A.S. Lond.

BIKANIR, *Dungar College.* B.A. Principal—M. N. Tolani, M.A. Bom.

CAWNPORE, *Christ Church College.* M.A.; M.Sc. Principal—S. C. Chatterji, M.A. Panj.

CAWNPORE, *Dayanand Anglo-Vedic College.* M.A.; B.Sc.; LL.B.; B.Com. Principal—L. Diwan Chand, M.A. Panj. and Calc.

CAWNPORE, *Government Agricultural College.* B.Sc.Agric. Principal—P. K. Dey, M.Sc., I.A.S.

CAWNPORE, *Sanatan Dharma College.* M.A.; B.Com.; LL.B. Principal—K. S. Bhatnagar, M.A.

GORAKHPUR, *St. Andrew's College.* B.A. Principal—Raja Ram, M.A. Camb.

GWALIOR, *Victoria College.* M.A.; B.Sc. Entirely supported by the State Principal—H. M. Bull, M.A. Camb.

INDORE, *Christian College.* M.A. Principal—Rev. A. A. Scott, M.A., B.D. Tor.

INDORE, *Holkar College.* M.A.; M.Sc.; LL.B. Maintained by the State. Principal—P. Basu, M.A., Ph.D., B.L. Calc.

JAIPUR, *Maharaja's College.* M.A.; M.Sc. Maintained by the State. Principal—K. L. Varma, M.A.

JODHPUR, *Jaswant College.* B.A. Maintained by the State. Principal—P. P. Shahani, M.A. Bom.

MEERUT, *Meerut College.* M.A.; M.Sc.; LL.B. Principal—Col. T. F. O'Donnell, M.C., V.D., B.A. Dub.

GENERAL INFORMATION

Act VIII. of 1926 of the United Provinces Legislature, which received the assent of the Governor-General on Oct. 20, 1926, provides for the establishment of a university "for the purpose of affiliating the colleges associated with the University of Allahabad . . ." so as to set it free to function as a unitary, teaching, and residential institution. It empowers the Agra University to affiliate colleges in the United Provinces, Rajputana, Central India, and Gwalior, except within the limits of the Universities of Allahabad and Lucknow, or within a radius of ten miles from the Benares Hindu University or from the Aligarh Muslim University. To supplement the work in affiliated colleges the University may institute teaching posts at selected centres.

Five categories of persons are to be eligible, subject to prescribed conditions, for degrees and other academic distinctions: (*a*) candidates who pass the University's examinations after pursuing an approved course at an affiliated college; (*b*) teachers who pass the University's examinations; (*c*) inspecting officers in the Department of Education who pass the University examinations; (*d*) research workers; (*e*) women who have carried on private study. Lectures and instruction may be provided by the University for, and diplomas may be granted to, persons other than students of an affiliated college.

The supreme governing body of the University is the Senate, the other principal authorities being the Executive Council, Academic Board, Board of Inspection, and Faculties of Arts, Science, Law, Commerce, and Agriculture. The Vice-Chancellor, an honorary officer elected by the Senate, is the principal executive and academic officer.

Students are not eligible for admission to a degree course unless they have passed the Intermediate Examination of the Board of High School and Intermediate Education of the United Provinces, or of an Indian University incorporated by law, or an equivalent examination.

The Act came into force on July 1, 1927, and all the constituent bodies of the Univ. have been formed. The Univ. held its first examns. in 1928.

DEGREES. B.A., M.A., D.Litt.; B.Com.; LL.B., LL.M.; B.Sc., M.Sc., D.Sc.; B.Sc.(Agr.).

COURSES. B.A., B.Sc., 2 yrs. Candidates must have passed (i.) the Intermed. Examn. of the Bd. of High School and Intermed. Edn., U.P., or of the Bd. of High School and Intermed. Edn. for Rajputana (including Ajmer-Merwara), Central India and Gwalior or of an incorporated Indian Univ.; or (ii.) the Higher School Certif. Examn., conducted by the Syndicate of the Univ. of Cambridge; and have attended a regular course of study in an affiliated college.

B.Com., 3 yrs. Candidates must have passed (i.) the Intermed. Examn. of the Bd. of H. Sch. and Intermed. Edn., U.P., or of an incorporated Indian Univ. or (ii.) the Commercial Diploma Examn. of Allahabad Univ. or of the Bd. of H. Sch. and Intermed. Edn., U.P.; or (iii.) the Intermed. Examn. in Commerce of the Bd. of H. Sch. and Intermed. Edn., U.P. or Rajputana (incl. Ajmer-Merwara), Central India and Gwalior; or (iv.) the Intermed. (Group B —special) Examn. of Delhi Univ. with Regional and Commercial Geogr. as optional subject; or (v.) the Intermed. Examn. of the Andhra Univ. with Economics, Commercial Geography and Accountancy as optional subjects. Candidates who have passed (ii.) (iii.) (iv.) or (v.) will be exempted from the 1st yr. of the course.

LL.B. Graduates in Arts, Commerce, Science or Agric. who complete a regular course of study in a Law Class in an Affiliated College for 1 yr. are eligible for admission to the Previous Examn., and after 1 further yr. to the Final Examn.

B.Sc.Agr. Candidates must have passed the Intermed. Examn. in Agric. of the Bd. of H. Sch. and Intermed. Edn., U.P., or any other examn. in Agric. recognized by the Univ. as equivalent thereto, and have attended a regular course of study in an affiliated college for 2 academical yrs.

B.Sc. in Pharmaceutical Chemistry. Statutes have been approved and it is expected that one of the affiliated Colleges will in due course provide the prescribed course of instruction.

Higher Degrees. M.A., M.Sc., 2 yrs.' course in an affiliated college. Two examns.—Previous and Final.

LL.M., 2 yrs. after LL.B.

D.Litt., D.Sc. Awarded on basis of an original thesis upon any subject within the Fac. of Arts and Sci. respectively. Open to masters of Arts and masters of Science of at least 3 yrs.' standing, (i) of the Univ., or (ii) of Allahabad Univ., who at time of passing the Master's Examn. were students of Colls. associated with that Univ. and now affiliated to Agra Univ., or (iii) of any other incorporated Univ. recognized for this purpose by the Exec. Council who have been resident within the territorial limits of Agra Univ. for 3 yrs. immediately preceding date of their application.

SCHOLARSHIPS. 10 research scholarships of Rs. 50 each per mensem, tenable for 8 months in an affiliated coll. The following postgrad. scholarships of Rs.30 per mensem tenable for 2 yrs., are awarded annually for precedence in First or Second Division on results of the respective degree examn. :—15 M.A., on result of B.A. examn.; 10 M.Sc., on result of B.Sc. examn.; 3 M.A., on result of B.Com. examn.; 2 M.Sc., on result of B.Sc. (Agr.) examn. A large number of scholarships and medals awarded by the 17 affiliated colls. to their own students.

PUBLICATION. *Calendar* (August).

THE YEAR 1937–38

DEVELOPMENTS. The University library being developed in order to encourage research and supplement the libraries of affiliated colleges in subjects in which research is being carried on. Publication of an annual journal in two parts under consideration—(*a*) Orig. research work; (*b*) General, containing summaries of Extension Lectures and other articles.

CHANGES IN REGULATIONS. Statutes for a B.T. Degree (Bachelor of Teaching) framed.

STUDENTS. Full-time: 4274, including 1196 graduates.

DEGREES. B.A., 939; M.A., 164; LL.B., 361; B.Sc., 212; M.Sc., 36; B.Com., 110; B.Sc. (Agr.), 30.

ALIGARH MUSLIM UNIVERSITY, ALIGARH

Founded 1920

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—HIS EXALTED HIGHNESS LIEUT.-GENERAL SIR USMAN ALI KHAN BAHADUR FATEH JUNG, G.C.S.I., G.B.E., Hyderabad (Deccan).

PRO-CHANCELLOR—HIS HIGHNESS CAPTAIN SIR SYED MOHD. RAZA ALI KHAN BAHADUR MUSTAID JANG, LL.D, K.C.S.I., Rampur.

VICE-CHANCELLOR—The Hon. SIR SHAH MOHD. SULAIMAN, M.A., LL.D., D.S.

PRO-VICE-CHANCELLOR—A. B. A. HALEEM, B.A. Ox.

TREASURER—K. B. MOULVI HAJI MOHD. OBEDUR RAHMAN KHAN SAHIB SHERWANI, M.L.A.

REGISTRAR—AZMAT ELAHI ZUBERI, B.A., LL.B.

LIBRARIAN—S. BASHIRUDDIN, M.A.

TEACHING STAFF

Arabic

..... Prof.
Memon, Abdul Aziz Reader.*
Ali, Abid Ahmad, D.Phil. Ox., M.A., LL.B. Reader.
Mansur, A. H., Ph.D. Ber., M.A. Lectr.
1 Grade II. Lectr.

Botany

Khan, Rafiq Ahmad, Ph.D. Camb., M.Sc. Ben., B.Sc. All. Reader.*
Hyder, Asghar Ali, Ph.D. Ber., B.Sc. All. Lectr.
1 Grade II. Lectr., 2 Demrs.

Chemistry

..... Prof.
Haider, M., M.A. Camb., B.A. All., B.Sc. Lond. Reader.*
Aziz, Abdul, B.Sc. All., Ph.D. Ber. Reader.
Bakhsh, A., M.A., B.Sc. All. Lectr.
Ahmad, N., B.Sc. Panj., D.Sc. Mun. Lectr.
3 Demrs.

Economics

Hyder, L. K., C.I.E., B.A. All. and Camb., Ph.D. Heid. Prof.*
Shafi, S. M., B.Sc. Lond., B.A. Lectr.
Uddin, S. M., M.A., LL.B. Lectr.
Attaullah, S., M.A. Panj. Lectr.
2 Grade II. Lectrs.

Education

Saiyidain, K. G., M.Ed. Leeds, B.A. (on leave) Prof.*
Rahman, Habibur, M.A. All. and Birm., L.T. All. Reader.*
Husain, Tajammul, B.T. Panj., M.A. Lectr.
Siddiqi, W. H., B.A., L.T. Lectr.

* Chairman of Dept.

Husain, Ishrat, M.A. Leeds, B.A. Lectr.
4 Grade II. Lectrs.

English

Fielden, F. J., M.A. Lond. and Camb. Prof.*
Sarwar, G., M.A. Panj. and Leeds Reader.
Husain, Khwaja Manzoor, B.A. Ox., M.A. Reader.
Ali, Mukhtar Hamid, M.A. Lectr.
Hasan, Syed M., M.A. Lectr.
7 Grade II. Lectrs.

Geography

Rizvi, S. M. Tahir, B.A., Ph.D. Lond., M.A., LL.B. Reader.*
Ahmad, Q. Saiduddin, M.A., LL.B. Lectr.
3 Grade II. Lectrs., 5 Demrs.

History and Polit. Science

Haleem, A. B. A., B.A. Ox. Prof.*
Habib, Mohd., B.A. Ox. Prof.
Halim, A., M.A. Dac. Lectr.
Rashid, S. A., M.A., LL.B. Lectr.
Siddiqi, A. H., B.A., Ph.D. Lond., B.A., LL.B. Lectr.
Puri, A. A., Ph.D. Lond., M.A., LL.B. Lectr.
4 Grade II. Lectrs.

Islamic Studies

..... Reader.*
..... Lectr.

Law

Khaliq, Abdul, K. B., B.A., LL.B. Reader.*
Khusro, M. Ishaq, M.A. Camb. Lectr.
Ishaq, K. M., B.A., LL.B. Lectr.
Salam, Abdus, M.A., LL.B. Lectr.
Raza, S. Mahmud, M.A., LL.M. Lectr.
Rahman, Hafizur, B.A., LL.B. Lectr.

Mathematics

Kureishy, A. M., M.A. Reader.*
Shah, S. M., M.A. Lond. Lectr.
Kerawala, Sulaiman, B.A. Camb. Lectr.
2 Grade II. Lectrs.

Medicine and Surgery (Unani)

Butt, A., M.D. Principal.*

Lecturers

Latif, Hakim Abdul.
Afzal, Mohd., M.B., B.S. Panj.
Shah, Inayatullah, M.B., B.S.Panj.
Khan, H. Zahiruddin.
Owais, Shah Mohd., B.A., LL.B.
Farooqi, M. M. Aqil.
Ibrahim, Mohd., M.B., B.S. Panj.
Khan, H. Zargham Ali.
Hasan, Chiragh, M.Sc , Ph.D.
Nasar, H. Abdullah Khan.
1 Demr.

Persian

Hasan, Syed H., B.A. Camb., B.Sc. Bom., Ph.D. Lond. Prof.*
Khan, Haji Hamiduddin, M.A. All. Reader.
Ahmad, Zia-i, M.A. All. Lectr.
2 Grade II. Lectrs.

Philosophy

Hasan, Syed Z., M.A. All., D.Phil. Ox. and Erlangen Prof.*
Sharif, M. M., B.A. Camb. Reader.
Umaruddin, M., M.A. Lectr.
Ahmad, M. M., M.A., Dr.Phil.Mar. (on leave) Pt.-time Lectr.
Makhdum, M. M., M.A. Pt.-time Lectr.
3 Grade II. Lectrs.

Physics

..... Prof.
Chaudhri, R. M., Ph.D. Camb., M.Sc. Reader.*
Ishaque, S. M., Ph.D. Lond., M.A., M.Sc., B.T., D.I.C. Reader.

* Chairman of Dept.

Ali, S. Nawazish, M.Sc., Ph.D. Lectr.
Uddin, M. Zaki, M.Sc. Camb., Dr.Phil. Bonn., M.Sc., Ph.D. Lectr.
1 Grade II. Lectr., 2 Demrs.

Theology
Ashraf, Suleiman Haji (Sunni) Reader.*
Abu Bakr, M. M. S. (Sunni) Dean & Lectr.
Nabi, S. S. (Shia) Dean & Lectr.

Sanskrit [Grade II. Lectr.
Shastri, Pandit Ram Sarup

Urdu
Siddiqi, R. A., M.A. All. Reader.*
Saroor, Ali Ahmad, M.A. Lectr.
2 Grade II. Lectrs.

Zoology
Mirza, Babar, B.Sc. Bom., D.Ph. Frankf. Reader.*
Sharif, M., Ph.D. Camb., D.Sc. (on leave) Lectr.
1 Grade II. Lectr., 2 Demrs.

Medical Officer
Ahmad, Aziz.
2 Assts.

Univ. Engineer
Khan, Mohd Mahfuz

* Chairman of Dept.

GENERAL INFORMATION

The Mahomedan Anglo-Oriental College, founded in 1875, became, under the Aligarh Muslim University Act of 1920, a unitary residential University, with Univ. School and Intermediate College attached as separate institutions. The Intermediate Coll. was abolished in 1932, the Intermediate classes being absorbed in the Univ. proper. The Univ. receives Rs. 3,00,000 annually from the Govt. of India, Rs. 1,52,012 from the Local Govt., Rs. 60,000 from H.E.H. the Nizam of Hyderabad, and contributions from other Indian States. Although the governing body is composed of Mahomedans, and special attention is paid to Muslim Theology, it is open to all, without distinction of sex, race, creed, or class. In the grounds, comprising several square miles, are halls and hostels sufficient for the accommodation of all the students and some of the staff. LIBRARY, 47,000 vols., besides a collection of 4000 MSS. on Oriental Lit. LABORATORIES: Physics, Chem., Botany, Zoology and Geography.

The Muslim UNIV. SCHOOL is a feeder to the University and a practising school for the TRAINING COLLEGE. The Univ. also maintains the Muslim University City High School run on less expensive lines, and a Tibbiya College to impart instruction in indigenous medicines of Muslim origin.

COURSES. For students who have passed the High School or Matricn. Examn. of an Indian Univ., 2 yr. Interm. course in Arts or Sci. For students who have passed the Intermediate examn. of an Indian Univ., 2 yr. course for the B.A. or B.Sc. ordinary and 3 yrs. for B.A. or B.Sc. with hons. One yr. for Teaching Certificate. Courses leading to M.A., M.Sc., LL.B., B.T. (Bachelor of Teaching), B.Th. (Bachelor of Theol.), and Ph.D. degrees are also provided. FEES: for Tuition, Rs. 6 to Rs. 15 p.m.; Board and residence about Rs. 20 p.m.

SCHOLARSHIPS FOR GRADUATES, enabling them to proceed to higher degrees, are awarded. One of Rs. 50 p.m. for research in Arabic, open to M.A.s. There is a loan fund for helping poor students.

PUBLICATIONS. *Calendar* (published irregularly); *Prospectus*; *University Journal*; *University Magazine* (English and Urdu).

THE YEAR 1937–38

BENEFACTIONS. Rs. 15,000 for General Revenue from Haji Abdullah Karim Bahlul of Nadiad; Rs. 2854 for the Duty Society from various persons, including Rs. 1000 from H.H. the Nawab of Bhopal; Rs. 2000 p.a. for 3 yrs. from the Nabha Durbar for the Military College and Technical Institute; Rs. 600 and Rs. 500 from Haji Ahmeduddin Mohammaduddin Sahib and Dr. Ghulam Imam, Calcutta, respectively, for the V.C.'s Fund.

NEW DEVELOPMENTS. Holders of B.Com. Degree are eligible for admission to the B.T. Class. The Theology Examination for the High School and Intermediate Examination (Part I.) will be held twice a year. Degree classes for women students have been taken over by the Univ. from the Muslim Girls' College, Aligarh, and there is now a separate Hall for women students. Tibbiya College Hospital under construction.

STUDENTS. Full-time: 1842, including 678 graduates.

DEGREES. B.A., 181; B.A. (Hons.), 3; M.A., 87; LL.B., 127; B.Sc., 51: M.Sc., 23; B.T. (Theory), 56; (Practice), 53; Ph.D., 2.

UNIVERSITY OF ALLAHABAD

Founded 1887

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR AND CHAIRMAN OF THE COURT AND ACADEMIC COUNCIL—PANDIT IQBAL NARAIN GURTU, M.A., LL.B. (on leave) Prof. AMARANTHA JHA, M.A. (offg.).

TREASURER—RAI BAHADUR KANHAIYA LAL, M.A., LL.D

REGISTRAR—S. P. VARMA, M.A., Ph.D.

PROCTOR—S. K. RUDRA, M.A.

LIBRARIAN—R. P. TRIPATHI, M.A., D.Sc.

TEACHING STAFF

Arabic and Persian

Siddiqi, A., M.A., Ph.D. Prof.
Nami, Syed Mohd. Ali, M.A. Reader.
Ahmad, Z. M. G., M.A., Ph.D. Lectr.
Rahman, Md. N., M.A. Lectr.
Hasan, Saeed, Ph.D. Lectr.
1 Junr. Lectr.

Botany

Mitter, J. H., M.Sc. Panj., Ph.D. Camb. Prof.
Ranjan, S., D.Sc. Camb., M.Sc. Reader.
Saksena, R. K., D.Sc. Lectr.
Srivastava, G. D., M.Sc. Lectr.
Tandon, R. N., M.Sc. Lectr.
2 Demrs.

Chemistry

Dhar, N. R., M.Sc. Calc., D.Sc. Lond., I.E.S. Prof.
Chatterji, K. P., M.Sc. Reader.
Dutt, S. B., D.Sc. Lond. Reader.
Taimini, I. K., M.Sc., Ph.D. Lectr.
Ghosh, S., D.Sc. Lectr.
6 Demrs.

Commerce

Ghosh, M. K., M.A., B.Com. Lond. Reader.
Chowdhury, R. C., M.Sc. Lectr.
Dubey, R. N., B.Com., D.Litt. Lectr.
Govil, K. L., M.A. Lectr.

Economics

Rudra, S. K., M.A. Camb. Prof.
Karwal, G. D., M.A. Panj. Reader.
Adarkar, B. P., M.A. Camb. Reader.
Bhatnagar, B. G., M.A. Lectr.
Dubey, Daya Shankar, M.A., LL.B. Lectr.
Mehta, J. K., M.A. Lectr.
Prasad, Saraswati, M.A. Lectr.
Thomas, Mrs. M., M.A. Lectr.

English

Jha, A. N., M.A. Prof.
Pande, S. A., M.A., LL.B. Reader.
Deb, S. C., M.A. Reader.
Dustoor, P. E., M.A., D.Litt. Reader.

Lecturers

Ojha, Damri, M.A., LL.B.
Sircar, K. M., M.A., M.Sc.
Misra, S. N., M.A., LL.B.
Gupta, L. D., M.A.
Mehrotra, K. K., M.A., B.Litt.
Bhandarkar, Miss V., M.A.
Simlai, Beni, M.A.
Sahai, R., M.A.
3 Jnr. Lectrs., 1 Pt.-time Teacher.

Hindi

Varma, D., M.A., D.Litt. Reader.
Varma, R. K., M.A. Lectr.
Tripathi, Miss C., M.A. Lectr.
1 Junr. Lectr.

History

Khan, Sir S. A., M.A., Litt.D. Prof.
Tripathi, R. P., M.A., D.Sc. Reader.
Prasad, Ishwari, M.A., LL.B., D.Litt. Reader.
Parmanand, M.A. Lectr.
Saxena, B. P., M.A., Ph.D. Lectr.
Prasad, Bisheshwar, M.A., D.Litt. Lectr.
Mitter, Mrs. S., M.A. Lectr.

Law

Dube, A. P., M.A., B.C.L. Prof.
Bhattacharya, K. K., M.A., LL.M. Lond. Reader.
Sastry, K. R. R., M.A., M.L. Mad. Reader.
Pathak, K. K., B.A., LL.B. Lectr.
Tiwari, L. R., B.A., LL.B. Lectr.
3 Pt.-time Teachers.

Mathematics

Banerji, A. C., M.Sc. Calc., M.A. Camb., I.E.S. Prof.
Prasad, Gorakh, D.Sc. Edin. Reader.
Srivastava, P. L., M.A., D.Phil. Reader.
Prasad, B. N., Ph.D., D.Sc. Lectr.
Tiwari, S. G., M.A. Lectr.
Mohan, Piare, M.Sc. Lectr.
1 Junr. Lectr.

Philosophy

Ranade, R. D., M.A. Prof.
Mukerji, A. C., M.A. Reader.
Mukerji, N. C., M.A. Lectr.
Kaul, R. N., M.A. Lectr.
Haldar, Miss A. L., M.A. Lectr.
1 Junr. Lectr.

Physics

Saha, M. N., D.Sc. Calc., F.R.S. (on leave) Prof.
Bhargava, S. R., M.Sc. Prof. (offg.).
Ghosh, R. N., D.Sc. Reader (offg.).
Deodhar, G. B., M.Sc., Ph.D. Lectr.
Majumdar, K., D.Sc. Lectr.
Toshniwal, G. R., D.Sc. Lectr.
4 Demrs.

Political Science [Prof.

Prasad, Beni, M.A., Ph.D., D.Sc.
Ahmad, I., M.A. Lectr.
Chatterji, G. S., M.A. Lectr.
1 Junr. Lectr., 1 Pt.-time Teacher.

Sanskrit

Acharya, P. K., M.A. Calc., Ph.D., D.Lit. Lond., I.E.S. Prof.
Saksena, B. R., M.A., D.Litt. Reader.
Misra, Umesh, M.A., D.Litt. Lectr.
Chatterji, K. C., M.A. Lectr.
Herlekar, Miss M. N., M.A. Lectr.
1 Junr. Lectr.

Urdu

Ali, Syed Zamin, M.A. Reader.
Syed, M. H., D.Litt. Dub., M.A., L.T., Ph.D. Lectr.
1 Junr. Lectr.

Zoology [Prof.

Bhattacharya, D. R., Ph.D., D.Sc.
Mehra, H. R., M.Sc., Ph.D. Camb. Reader.
Das, R. S., D.Sc. Lectr.
Varma, S. C., M.Sc. Lectr.
Datta, S. K., M.Sc. Lectr.
2 Demrs.

COLLEGES OF THE UNIVERSITY

EWING CHRISTIAN COLLEGE, Allahabad (American Presbyterian Mission). Principal—C. H. Rice, M.A., Ph.D., LL.D. 20 Tutors.

KAYASTHA PATHSHALA UNIVERSITY COLLEGE, Allahabad. Principal—Tara Chand, D.Phil. Ox., M.A. 7 Tutors.

AGRICULTURAL INSTITUTE, Naini, Allahabad. Principal—S. Higginbottom, Ph.D.

GENERAL INFORMATION

Founded in 1887, the Univ. concerned itself mainly with examinations, having no teaching staff (except that of its School of Law) until 1914. Thereafter it established Chairs and Readerships, etc., for research work in Economics and Modern History for graduate students. In Jan. 1922 was passed an Act (which came into operation in July 1922) for the reorganization of the Univ. as a unitary, teaching, and residential institution, with control, however, over the quality and character of the teaching in "Associated" colleges. In 1926 was passed the Agra University Act, providing for the transfer of the control of these colleges to the Agra Univ. The Univ. now functions as a unitary, teaching, and residential Univ.

LIBRARY, 96,191 vols. A collection of coins is attached to the Library. MUSEUMS in connexion with Econ. and Com. Depts.

FACULTIES. Arts, Science, Law, and Commerce.

DEGREES, ETC. B.A., B.A. Hons., M.A., D.Phil., D.Litt.; B.Sc., B.Sc. Hons., B.Sc. (Ag.), M.Sc., D.Phil., D.Sc.; LL.B., LL.M., LL.D.; D.Litt. (Econ.); B.Com.; Dip. in Indian Music.

The *courses* of study in the Univ. for the bachelor's degree cover 2 (B.A. and B.Sc. Hons.—3) yrs., following an examn. of "Intermediate" standard, equivalent to the Higher School Examn. of the Univ. of Cambridge. The intermediate examns. of other Univs. incorporated by law in British India and the inter. examn. of the Mysore Univ., the inter. examn. of the Board of High School and Interm. Educn., Rajputana (incl. Ajmer-Merwara, Central India, and Gwalior) are recognized for the same purpose. The Intermed. Examn. in Agriculture of Nagpur Univ. has been so recognized for admission to the B.Sc. Agric. Class of this Univ. and the Prelim. Examn. of the Mayo College, Ajmer, has been recognized as equivalent to the Intermed. Examn. of the U.P. Board. Graduates in Agriculture are eligible for admission to the Law Classes.

For admission to courses leading to higher degrees the B.A. and B.Sc. degrees of any Univ. in British territory recognized by the law of the place in which it is situated and of the Allahabad and Mysore Univs. are recognized.

SCHOLARSHIPS FOR GRADUATES. *Univ. Schols.*—22, ranging from Rs. 25 to Rs. 100 p.m. for graduates. 9 Research Schols., of Rs. 50 each (1 yr.) in Arts and 5 in Science. *Endowed Schols.*—4 Empress Victoria Research Schols., Rs. 100 p.m. (3 yrs.), and 2 Kanta Prasad Research Schols. for Hindus, Rs. 100 p.m. (2 yrs.), for M.Sc. 2 D.Sc. and D.Litt. Schols., of Rs.100 p.m. (2 yrs.). The University has also a special fund for enabling students and staff to proceed to other countries for higher studies.

PUBLICATIONS. *Calendar*, Rs. 5; *Univ. Examns. Prospectus*, annas, 8; *Univ. Minutes*, Rs. 5; *University Magazine*, Rs. 2.8 p.a.; *University Studies*, Rs. 7.8; *Indian Journal of Economics*, Rs. 12 p.a.; *Annual Report.*

THE YEAR 1937–38

BENEFACTIONS. P. Seshadri, Rs. 1000 for gold medal to be awarded annually in essay competition. B. N. Atal, Rs. 5200 and further promised donation of Rs. 2000 for award of two schols. V. N. Vidyant, Rs. 3000 for three gold medals. H. K. Kaul, Rs. 1250 for award of gold medal.

UNIVERSITY JUBILEE. The Univ. celebrated its Golden Jubilee in Dec. 1937. The Chancellor, His Excellency Sir Harry Haig, attended the two Convocations—Special and Annual—and several other functions, including the Banquet and At Home. Messages were received and read by the respective delegates on the occasion of Special Convocation. The Univ. conferred honorary degrees of D.Sc., D.Litt. and LL.D. on distinguished scientists and public men, including several eminent men living in England. In response to an appeal donations were received from all over the country, including Rs. 50,000 from H.H. Maharaja of Darbhanga, Rs. 25,000 from H.H. the Nizam of Hyderabad, Rs. 25,000 from H.H. the Nawab of Bhopal.

CHANGES IN ORDINANCES. Ordinances for Dip. Examn. in Drawing and Painting framed. Geog. to be taught as optional B.A. subject from next session.

EXTRA-MURAL WORK. Many popular lectures were delivered by members of the teaching staff.

STUDENTS. Full-time : 2118.

DEGREES. B.A., 376 ; B.A. Hons., 11 ; M.A., 119 ; D.Litt., 1 ; D.Phil., 7 ; B.Com., 32 ; LL.B., 116 ; B.Sc., 84 ; B.Sc. Hons., 8 ; M.Sc., 47 ; D.Sc., 3 ; B.Sc. (Ag.), 14.

THE ANDHRA UNIVERSITY, WALTAIR

Founded 1926

CHANCELLOR—H. E. LORD ERSKINE, G.C.I.E., Governor of Madras.

PRO-CHANCELLOR—THE MAHARAJAH OF JEYPORE, D.Litt.

VICE-CHANCELLOR—C. R. REDDY, M.A. Camb., D.Litt., M.L.C.

REGISTRAR—R. S. ROW, B.A.

UNIVERSITY ORATORS—P. RAMASWAMI, M.A.; P. LAKSHMI KANTAM, M.A.

HON. LEGAL ADVISER—L. SUBBARAO, B.A., B.L., M.L.C.

LIBRARIAN—S. PARTHASARADHI, M.A.

PRINCIPAL OF THE UNIVERSITY COLLEGES—Prof. V. APPARAO, M.A., L.T.

TEACHING STAFF

UNIVERSITY COLLEGE OF ARTS AND COMMERCE

Commerce

Seshagirirao, A., M.A., A.S.A.A. Lond. Reader.
Upadrasta, V. K., B.A., LL.B., A.S.A.A. Lond. Lectr.
Rajan, T. P., B.Com. Edin., B.A. Lectr.
Datta, H. K., M.A. Lectr.
Venkatesam, E., B.A., M.L. Lectr.
Sarma, K. S., M.Com. Lectr.

English

Subbarao, M. V. N., M.A. Lectr.
Muthuswami, B., B.A. Lectr.

French and German

Krishnamachari, S. T., B.A., B.L. [Lectr.

Hindi

Venkateswarasarma, V., Pracharak Visarad Pandit.

History, Economics and Politics

Venkatarangaiya, M., M.A. Prof.
Venketrao, G., M.A., LL.B. Reader.
Krishna, V. S., B.A. Ox., Ph.D. Vienna Reader.
Srinivasan, N., M.A., B.Sc. Lond. Lectr.
Sitaramasastri, Ch., M.A. Lectr.
Punnayya, K. V., M.A. Lectr.
Rao, T. S. N., M.A. Lectr.

Mathematics

Ramaswami, V., B.A., Ph.D. Camb. Reader.
Lakshmanamurti, M., M.A. Lectr.
Nagabhushanam, K., M.A. Lectr.
Ratnam, P., M.A. (on study leave) Lectr.
Sambasivarao, K., M.A. Lectr.

Oriya

Madhusudan Shodangi, Vidya Praveena Pandit.

Philosophy

Sen, S., M.A., D.Litt., D.Phil. Prof.

Purushottam, T. A., M.A., Ph.D. Lond. Lectr.
Raju, P. T., M.A., Ph.D. Lectr.

Telugu

Lakshmikantam, P., M.A. Lectr.
Somayajee, G. J., Vidwan, M.A., L.T. Lectr.
Sastri, M. S. Lectr.
Sastri, V. Ch. S. Lectr.
Rao, A. R. K., B.A. Lectr.

Jeypore Vikrama Deo College of Science and Technology

Chemistry

Seshadri, T. R., M.A., Ph.D. Manc., F.I.C. Prof.
Gopalarao, G., D.Sc. Lond., A.I.C. Reader.
Raghavarao, Bh. S. V., M.Sc., Ph.D. Lond., A.I.C., A.I.I.Sc. Lectr.
Neelakantam, K., M.A., A.I.C. (on study leave) Lectr.
Suryapracasarao, P., B.Sc. Lectr.
Murty, G. V. S. L. N., M.Sc. Lectr. Asst.
Rangaswami, S., B.A. Demr.
Varadanam, Ch. I., M.Sc. Demr.
Subbarao, V., B.Sc. Demr.

Physics

Raman, Sir C. V., M.A., D.Sc., LL.D., F.R.S., N.L. Hon. Prof.
Apparao, V., M.A., L.T. Prof.
Bhagavantam, S., M.Sc. Prof.
Rao, K. R., M.A., D.Sc. Lond. Reader.
Rao, I. R., M.A., Ph.D. Cal., D.Sc. Lond. Lectr.
Nagendranath, N. S., M.Sc. (on study leave) Lectr
Venkatarayudu, T., M.A. Lectr.
Murty, S. G. K., M.A., D.Sc. Lectr.
Jogarao, Ch. V. Asst Lectr.
Koteeswaran, P., B.Sc. Demr.
Ramarao, S. B., M.Sc. Demr.

Technology

Seshadri, T. R., M.A., Ph.D. Manc. Prof.

Lecturers

Vidyarthi, N. L., M.Sc. Liv.
Gangadharam, G., D.Eng. Munich, B.E., M.Sc., A.M.E., A.M.S. M.A.A.S.
Naidu, T. V. R., B.Sc., B.Sc.Eng. (Pt.-time)
Venkatarao, C., M.Sc. (Tech.) (on study leave)
Khorana, M. L., M.Sc.
Venkateswarlu, J., M.Sc.
Dasarao, C. J., B.Sc. (Ag.), M.Sc. (Tech.)
Subbarao, N. V. Demr.

Games

Chidanandam, M., B.A., Dip. Phy. Edn.

CONSTITUENT HONOURS COLLEGES

Waltair, *University College of Arts and Commerce.* Provides pass, Hons. and research courses in Mathematics, Philosophy, Hist., Econ., Politics, Telugu, and Commerce.

Waltair, *Jeypore Vikrama Deo College of Science and Technology.* Provides B.Sc. Hons., Post-Hons. and research courses in Physics, Chemistry and Technology, Post-Hons. course in the Chemistry (including Microscopy) of Foods, Drugs and Water.

PROFESSIONAL COLLEGES

RAJAHMUNDRY, *Government Training College.* B.Ed. Principal—K. C. Subrahmanyaaiyar, M.A., L.T. 7 other teachers.

VIZAGAPATAM, *Medical College.* M.B., B.S. Principal—Major F. M. Collins, M.A., M.B., M.Ch., F.R.C.S., I.M.S. 50 other teachers.

AFFILIATED FIRST GRADE COLLEGES

COCANADA, *Pithapur Rajah's College.* Inter. B.A., B.Sc. Principal—P. Ramaswami, M.A. 44 other teachers.

GUNTUR, *Andhra Christian College.* Inter. B.A., B.Sc. Principal—Rev. J. Roy Strock, M.A., D.D. 35 other teachers.

MASULIPATAM, *Hindu College.* Inter. B.A. Principal—K. S. Rao, M.A., L.T. 22 other teachers.

PARLAKIMEDI, *Maharajah's College.* Inter. B.A. Principal—S. P. Ragland, M.A., L.T. 14 other teachers.

RAJAHMUNDRY, *Government Arts College.* Inter. B.A., B.Sc. Principal—T. Suryanarayana, B.A. Camb. 21 other teachers.

VIZIANAGARAM, *Maharajah's College.* Inter. B.A., B.Sc. Principal—U. S. Bhat, M.A., L.T. 31 other teachers.

AFFILIATED SECOND GRADE COLLEGES

Intermediate in Arts and Science

BERHAMPUR, *Khallikote College.* Principal—G. Dharmarao, M.A. 11 other teachers.

BEZWADA, *S.R.R. College.* Principal—N. S. Aiyar, M.A. 7 other teachers.

GUNTUR, *Hindu College.* Principal—B.R. Rao, M.A., L.T. 12 other teachers.

NELLORE, *Venkatagiri Rajah's College.* Principal—M. S. Raghavan, M.A. 13 other teachers.

VIZAGAPATAM, *Mrs. A. V. N. College.* Principal—M. Kamaiya, M.A., L.T. 17 other teachers.

ORIENTAL COLLEGES

Eight Oriental Colleges, including two for women only, are recognized by the Univ. for the Oriental Title Examns. and Certificates of Proficiency in Oriental learning.

GENERAL INFORMATION

The Act of the Madras Legislative Council constituting the Andhra Univ. "in and for the Telugu districts of the Presidency of Madras" received the assent of the Governor-General on Jan. 13, 1926, and came into force on April 26, 1926. By a later Act, the area has been narrowed down by the exclusion of certain districts, leaving the following within the affiliating jurisdiction of the Univ.: Vizagapatam, East Godavari, West Godavari, Kistna, Guntur and Nellore. The Act establishes five categories of colleges: "University Col-

leges," providing for pass and hons. or post-graduate courses for higher degrees; "First Grade Colleges," providing courses for the ordinary degrees in Arts or Science; "Second Grade Colleges," preparing for the Inter. Examn.; "Professional Colleges," providing courses for teaching and medical degrees, and "Special Grade Colleges," providing courses for Oriental Titles.

Among the powers of the University specified in the Act are: to promote the development of the study of Telugu, Kanarese, Urdu and Oriya, and their use as media of instruction and examination; to institute professorships and other teaching posts; to maintain colleges and hostels; to erect, equip, and maintain laboratories and libraries; to institute and provide funds for the maintenance of a publication bureau, an employment bureau, students' unions, and University Extension boards. Every student of the University must reside in a hostel or under prescribed conditions.

The supreme governing body is the Senate, by which the Vice-Chancellor, a whole-time salaried officer and principal executive, is elected (for 3 years). The other principal authorities of the University are: an executive body called the Syndicate (comprising 14 members, including the Vice-Chancellor, Financial Secretary to the Local Government, and Director of Public Instruction, Madras); the Academic Council; the Faculties and the Boards of Studies.

LIBRARY. 44,800 volumes.

FACULTIES. Arts, Science, Teaching, Medicine, Oriental Learning.

ADMISSION to Univ. Courses is by Matriculation examn. and Secondary School leaving certificate examn. (the latter conducted by the Madras Government), or any other examn. recognized as equivalent thereto.

DEGREES. B.A., B.A. Hons.; M.A., M.A. Hons.; B.Sc., B.Sc. Hons.; M.Sc., M.Sc. Hons.; B.Com., B.Com. Hons.; B.Ed., M.Ed.; Ph.D.; D.Litt.; D.Sc.; M.B., B.S., L.M.S., M.D., M.S.; M.O.L.; K.P. (Hon. Doctorate in Oriental Learning).

DIPLOMAS. Titles V.P., U.P. and B.P. (4 years' course); Certificates of Proficiency in Oriental Learning; Diplomas in French, German, Librarianship.

The EXAMINATIONS of all Statutory Indian Univs. are recognized as equivalent to the corresponding examns. of the Univ.

PUBLICATIONS. *University Code* (Act, Statutes, Ordinances, Rules, Regns., and Syllabuses); *Annual Register* (Univ. Authorities, Staff, Text Books, Endowments, Graduates and Univ., Affiliated and Recognized Colls); *Annual Report*; *Minutes*; *The Beginnings of Local Taxation*, by M. Venkatarangaiya; *The World Economic Depression—A Plea for Co-operation*, by Sir J. C. Coyajee; *India and the League of Nations*, by Sir J. C. Coyajee; *Federalism in Government*, by M. Venkatarangaiya; *Indian Politics since the Mutiny*, by C. Y. Chintamani; *Modern Chinese History*, by Prof. Tan Yun Shan; *Buddhist Remains in Andhra and the History of Andhra between 225 and 610 A.D.*, by K. R. Subramaniam; *Man*, by Dr. Rabindranath Tagore; *Chitraprabha—A Commentary on Haridikshita's Laghusabdaratna*, by B. Hari Sastri, edited with notes by Mahamahopadhyaya Tata Subbaraya Sastri; *Sangameswarakrodum on Jagadisa's Sidhantalakshanam*, by G. Sangameswara Sastri; *The University Lectures on Vemana*, by R. Anantakrishna Sarma; *Kavithvathathvavicharamu*, by C. Ramalinga Reddy; *Andhra Mimamsa Nyaya Muktavali—A Treatise on Purva Mimamsa Darsana*, by K. Gopalakrishnamma; *History of Sanskrit Literature*—Part I. *Vedic Period*, Part II. *Laukic Period*, by M. Suryanarayana Sastri; *A Descriptive Catalogue of the Telugu Manuscripts in the Tanjore Palace Library*, by P. P. S. Sastri; *Viswarupam*, by K. Kondayya;

Telugu Equivalents of Technical Terms in Physics, by A. Balankeswararao; *Vaiyakarana Parujatamu*, by V. Ch. S. Sastri; *History of Telugu Language*, by Dr. C. Narayanarao.

THE YEAR 1937–38

BENEFACTIONS. Rs. 2,72,130, which include one lakh each from the Nizam of Hyderabad and the Maharajah and the Maharani of Travancore.

NEW BUILDINGS. Old schemes completed—formation of roads in the Univ. campus and the revetments to playgrounds and roads. New schemes sanctioned—construction of new Hostel building, Technology building, Combustible shed, Visranti Sala, Compound wall, T. L. M. Reddi Sabha.

LANDS. The Provincial Government have made a donation of 34.11 acres of land in the Forest Compound adjoining the University campus.

CHANGES IN STATUTES, ORDINANCES AND REGULATIONS. *Statutes*: Boards of Studies in subjects in which there are Hons. courses have been bifurcated into those for Honours courses and those for Pass courses, etc.; the constitution of the Committee of Selection for appointment of University Teachers has been reorganized; etc. *Ordinances*: The constitution and functions of the Examination Boards have been revised. *Regulations*: Changes in Regulations have been made providing for—(1) inclusion of Music in the list of Combinations under Part III. of Intermediate courses; (2) introduction of compartmental system in Part II. of B.Com. Pass and Hons. courses; (3) study of Botany as a subsidiary subject along with Physics for B.Sc. Hons. Degree Examn.; (4) study of Chemistry of Foods, Drugs and Water as an optional subject for B.Sc. Hons. Chemistry Main; (5) B.O.L. (Bachelor of Oriental Learning) Degree Examination.

RESIGNATIONS. Dr. V. K. R. V. Rao (Economics); Dr. A. V. Rao (Physics); Dr. T. S. Narayana (Chemistry).

STUDENTS. Full-time: 3646, including 104 graduates.

HONORARY DEGREES. *D.Litt.*—His Highness Sri Padmanabha Dasa Vanchi Pala Sir Bala Rama Varma, G.C.I.E., Maharajah of Travancore; Her Highness Maharani Setu Parvati Bayi, Travancore. *The Honorary Doctorate Degree of Kalaprapurna*, in the Faculty of Oriental Learning, was conferred on M.R.Ry. Kasinathuni Nageswara Rao Pantulu Garu.

DEGREES. B.A., 248; B.A. Hons., 12; M.A. Hons., 3; B.Com., 34; B.Com. Hons., 5; B.Ed., 99; B.Sc., 34; B.Sc. Hons., 17; M.Sc., 1; M.Sc. Hons., 6; M.B., B.S., 17; Ph.D., 1.

ORIENTAL TITLES. Vidya Praveena, 16; Ubhayabhasha, 44.

ANNAMALAI UNIVERSITY, ANNAMALAI-NAGAR, MADRAS PRESIDENCY, SOUTH INDIA

Founded 1928

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR AND FOUNDER—RAJAH SIR S. R. M. ANNAMALAI CHETTIYAR OF CHETTINAD, LL.D. Madr.

VICE-CHANCELLOR—The Rt. Hon. V. S. SRINIVASA SASTRI, C.H., LL.D. Madr.

REGISTRAR—N. VISVANATHA AYYAR, M.A., L.T.

LIBRARIAN—K. NAGARAJA RAO, M.A., B.L.

TEACHING STAFF

Botany

Raghavan, T. S., M.A. Madr., Ph.D. Lond. Prof.
Venkatasubban, K. R., M.Sc. Ben., L.T. Madr. Lectr.
Ganesan, D., M.A., D.Sc. Madr. Lectr.
Rangaswami, K., B.Sc. Madr. Demr.

Chemistry

Anantakrishnan, S. V., M.A., Ph.D. Lond. Prof.

Lecturers

Sitaraman, M. L., B.A. Madr., M.Sc. Ben.
Anantavaidyanathan, N., M.A. Madr.
Meron, A. S., M.A., D.Sc. Madr.
Madhavannayar, A. P., B.A. Madr.
Pasupathi, V., M.Sc.
Aravamudhachari, S., B.A. Demr.
Venkataraman, R., B.Sc. Demr.

Economics

Narayanasvaminayudu, B. V., M.A., B.Com., Ph.D. Prof.
Ramakrishnaayyar, V. G., M.A. Madr. Lectr.
Zacharias, C. W. B., M.A. Madr. Lectr.
Munisvami, M. K., M.A., B.L. Madr. Lectr.

English

Rajagopalaayyangar, M. R., M.A. Madr. Prof.

Lecturers

Subramanyaaiyar, P. A., M.A. Calc. and Madr.
Krishnamurti, S., M.A. Madr.
Ragland, S. P., M.A. Madr.
Subramanyan, A. C., M.A. Madr.
Karunakaramenon, K. P., B.A. Madr.
Myleru, C. R., B.A. Madr.
Duraisvami, M. S., M.A. Madr.
Jagadisau, T. N., M.A. Madr.
Krishnamurti, V., M.A. Madr.

History

Srinivasachariar, Rao Saheb C. S., M.A. Madr. Prof.

Lecturers

Satyanathaayyar, R., M.A. Madr.
Balakrishnannayar, T., M.A. Madr. and Lond.
Bhaskaran, R., B.A. Madr.

Govindasvami, S. K., M.A. Madr.
Viramani, V. R., B.A. Lond.

Malayalam

Kochukrishnakurup, K., Vidvan, Madr. Junr. Pandit.

Mathematics

Narasingarao, A., M.A., L.T. Madr. Prof.

Lecturers

Krishnasvamiayyangar, G. V., M.A. Madr.
Sivasankaranarayanapillai, S., B.A., D.Sc. Madr.
Ramamurti, B., M.A., D.Sc. Madr.
Subramanyan, S., M.A. Madr.
Rangaswami, K., M.A. Madr, M.Sc.

Music

Varadachariar, K. Lectr.
Krishnaayyangar, S. Lectr.

Pandits

Ponniahpillai, K. (on leave)
Subramanyaayyar, M. S.
Gomatisankaraayyar, V. S.
Narayanasvami, K. S.
Rangachari, T. K.
Samiayyar, K.

Philosophy

Ramanujachariar, R., M.A. Madr. Prof.
Srinivasan, C. T., M.A. Madr. Lectr.
Srinivasalunayudu, P., M.A. Madr. Lectr.

Physics

Ramachandrarao, S., M.A. Madr., Ph.D., D.Sc. Lond., F.Inst.P. Prof.
Subbarao, N. S., M.A. Madr. Lectr.
Navanitakrishnan, T. P., M.A. Madr. Lectr.
Narayanasvamiayyar, S., M.A. Madr. Lectr.
Visvanathan, R. K., B.A. Madr. Lectr.
Sriraman, S., M.Sc. Demr.
Varadachari, P. S., M.A., M.Sc. Demr.

Sanskrit

Kuppusvamisastriar, S., M.A., L.T. Madr. (Mahamahopadhyaya) Hon. Prof.
Ramasvamisastri, V. A., M.A. Madr. (Siromani) Lectr.
Krishnamurtisarma, B. N., B.A. Lectr.
Mahahingasastri, Y., M.A., B.L. Madr. Lectr.

Pandits

Venkataramadikshitar, T. (Siromani).
Ramasubbasastri, S.
Sivaramakrishnasastri, K. A. (Siromani).
Panchapagesasastri, P., M.O.L. (Siromani).
Subramanyasastri, V. (Siromani).
Srinivasachariar, K. (Siromani).
Gurusvamisastriar, R. (Siromani).
Krishnamurti, S. R. (Siromani).

Tamil

Kadiresanchettiyar, M. Actg. Prof.
Venkatasvaminattar, M. Lectr.
Setupillai, R. P., B.A., B.L. Madr. (on leave). Lectr.
Chidambaranathachettiyar, A., M.A. Actg. Lectr.

Pandits

Kandasvamiyar, R.
Bhuvarahampillai, A., Vidvan.
Palaniappapillai, T. P., Vidvan.
Amirtalingampillai, R. P., Pandita.
Arunachalampillai, M.
Somasundaram, Vidvan.

Research Department

Raghavaayyangar, R. Lectr.
Varadarajaayyar, E. S., B.A. Madr. Pandit.
Ramanathanchettiyar, L. P. K. R. Pandit.

Telugu

Appannah, T., Vidvan, B.O.L. Madr. Pandit.

Zoology	[Lectr.
Seshaiya, R. V., M.A., L.T. Madr.	
Ramakrishnareddi, A., B.Sc. Madr.	Lectr.
Vasudevan, R., B.A.	Demr.
Thyagarajan, K. B., B.Sc.	Demr.

Physical Education	
L. K. Govindarajulu, B.A., B.L. Madr.	Director.
Srinwasan, S., B.Sc.	Asst.
Aiyaru, C.	Asst.

GENERAL INFORMATION

As the result of an offer by Rajah Sir S. R. M. Annamalai Chettiar of Chettinad to transfer to a residential teaching University, if one were founded, the Sri Minakshi College for higher instruction in English, the Sri Minakshi Tamil College and the Sri Minakshi Sanskrit College which he had established and maintained, together with an endowment of 20 lakhs of rupees, the Government of Madras passed an Act in 1928 accepting the offer and providing for the establishment of the Annamalai University. Government also provided 27 lakhs of rupees towards the endowment fund, a recurring grant of one and a half lakhs a year, and subject to conditions agreed between Government and the University, a sum of seven and a half lakhs for building and equipment.

The authorities of the University under the Act are: (1) the Senate, (2) the Academic Council, (3) the Faculties, (4) the Boards of Studies, (5) the Syndicate, (6) the Finance Committee (for a period of 10 years from May 15, 1929), and (7) the Board of Selection. The Chancellor, the Pro-Chancellor, the Vice-Chancellor, the Senate, the Academic Council and the Syndicate constitute the body corporate of the University. The Vice-Chancellor is an honorary officer who holds office for 3 yrs. and is appointed by the Chancellor on the nomination of the Founder.

The Hons. Degree Examns. in every subject include *viva-voces*.

Under the Act residence in a hostel or lodgings maintained by the Univ. is compulsory on all students. The warden of the hostel regulates attendance and exercises disciplinary control and supervision over the students. An important feature of the working of the hostel is the close association of students in the management of the affairs of each section.

Physical Training is compulsory on all students, and weekly lectures on Physiology, Health and Hygiene are delivered for their benefit.

FACULTIES. Arts, Science, and Oriental Studies.

ADMISSION. Holders of completed School Leaving Certificates under the S.S.L.C. scheme adopted by the Govts. of Madras and the Madras States declared eligible by the Syndicate are admitted to a course of Study in the Univ.

DEGREES. B.A., B.A. (Hons.); B.Sc., B.Sc. (Hons.); M.A., M.O.L. (Oriental Learning); Ph.D., M.Litt. and M.Sc. (research degrees).

DIPLOMAS. Titles in Oriental Learning and Music (Sangita Bushana Title) —4 yrs.' course. Pandits' Training—1 yr. course.

RECOGNITION OF EXAMNS. of other Univs. Examns. of all statutory Indian Univs. are recognized for purposes of admission.

FEES. Tuition, per term: B.A., B.A. (Hons.), B.Sc., B.Sc. (Hons.), Rs. 36-38; Science students, Rs. 4-6 addnl., plus deposit fee, Rs. 5. Admission, Re. 1; Games (Phys. Training), Rs. 2.

BOARDS OF STUDIES. English, Modern European Langs. (other than Engl.),

Philos., Hist., Econ., Maths., Physics, Chem., Bot., Zool., Tamil, Indian Music, Sanskrit and Dravidian languages other than Tamil.

DEANS. Prof. B. V. Narayanasvaminayudu (Arts); Prof. S. Ramachandrarao (Science); Mahamahopadhyaya Vidayvacaspati Prof. S. Kuppusvamisastriar (Oriental Studies).

LIBRARY. 51,000 volumes.

LABORATORIES. Physics, Chemistry, Botany and Zoology, with workshops and arrangements for practical work for all students.

TUTORIAL INSTRUCTION and disciplinary supervision for all students are provided by assigning about 15 students to each member of the staff.

RESIDENCE. Students are required to live in hostels attached to the University or in approved lodgings recognized by the University. Rent from Rs. 1.4 to Rs. 1.12 p.m. Separate Hostel with a Lady Warden for Women Students.

RESEARCH. Studentships tenable 2 yrs., value, Junr., Rs. 40, Senr., Rs. 60 per mensem. Fellowship tenable in India and abroad, value Rs. 125 to Rs. 150 per mensem.

PUBLICATIONS. *Calendar* (once in three years), Re. 1; *Annual Report* (April); *University Journal* (October, Jan., and April); *Students' Handbook* (July), Re. 1; *Factory Labour in India*, Rs. 3; *Bhoja Raja*, Rs. 1.8; *Naveenatarkam*, Rs. 2; *Mukundamala*, Re. 1; *Swaramelakalanidhi*, Rs. 2; *Tattvabindhu*, Rs. 2; *Acoustics*, Rs. 1.8; *Swarasiddhanta Chandrika*, Rs. 5; *Pari Pattu*, Rs. 2; *Trimsachloki*, *Nyayakulisa*, *Sabapati Vilasa Nataka*, *Distributive Cooperation in India*, Re. 1.

THE YEAR 1937–38

NEW BUILDINGS. Women Students' Hostel, Men's Club and Guests' House.

OTHER DEVELOPMENTS. P. Panchapagesa Sashi, M.O.L., awarded research fellowship in Sanskrit to work in collaboration with Prof. of Sanskrit in preparing publication on Indian epistemology.

NEW POSTS. Lectureships in Chemistry, Botany and Zoology and English.

RETIREMENT. S. S. Bharathi (Tamil).

STUDENTS. Full time: 879, including 12 graduates.

DEGREES. B.A., 19; B.A. (Hons.), 20; M.A., 13; B.Sc., 40; B.Sc. (Hons.), 12; M.Sc., 3; M.Litt., 1.

BENARES HINDU UNIVERSITY, BENARES, U.P.

Founded 1916

LORD RECTOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

VISITOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES.

CHANCELLOR—H.H. THE MAHARAJAH OF BIKANIR.

PRO-CHANCELLORS—H.H. THE MAHARAJAH OF BENARES, and H.H. THE MAHARAJAH OF JODHPUR.

VICE-CHANCELLOR—PANDIT MADAN MOHAN MALAVIYA, B.A., LL.B.

PRO-VICE-CHANCELLOR AND SECRETARY OF THE COURT AND THE COUNCIL—RAJA JWALA PRASAD, B.A., C.E., M.I.E. (India).

TREASURER—RAI GOVIND CHAND, M.A., M.L.C.

REGISTRAR—PANDIT G. P. MEHTA, M.A.

ASST. REGISTRAR—PANDIT K. D. TEWARI, M.A., LL.B.

COLLEGES MAINTAINED BY THE UNIVERSITY

CENTRAL HINDU COLLEGE. Principal—S. C. De, M.A. Calc.

Honorary Univ. Profs.: *Econ.*—Rao Bahadur K. V. Rangaswamyaiyangar, M.A. *History, Indian*—D. R. Bhandarkar, M.A., Ph.D.; *Maths.*—G. S. Mahajani, B.A., Ph.D. Camb. *Philos.*—*Sir S. Radhakrishnan, M.A., D.Litt. Calc. *Sanskrit*—A. B. Dhruva; S. K. Belvalkar, Ph.D. Harv.

Others: *Econ.*—H. R. Soni, M.Sc. Edin., D.Sc. Lond.; K. P. Sipahimalani, M.A. Bom.; P. Nath, D.Sc. Lond., Ph.D. Vienna. *English*—U. C. Nag, M.A. Calc., Ph.D. Lond., Hd. of Dept.; J. S. Yajnik, M.A., LL.B. All.; C. N. Menon, M.A., Ph.D.; S. N. Lal, M.A., LL.B. All.; M. M. Desai, M.A. Bom.; B. L. Sahni, M.A.; G. D. Sastri, M.A., LL.B.; M. Pd. Sinha, M.A.; R. L. Merh, M.A.; R. A. Dwivedi, M.A.; S. K. Singh, M.A.; G. S. Chunekar, M.A.; N. M. Kulkarni, M.A. *Hist.*—S. V. Puntambekar, M.A. Ox., Hd. of Dept.; S. N. Bhattacharya, M.A. Calc.; K. Bhattacharya, M.A. All.; P. Saram, M.A., Ph.D. Lond.; D. C. Ganguly, M.A., Ph.D. Lond. *Hist. and Culture, Ancient Indian*—A. S. Altekar, M.A., LL.B. Bom., D.Litt., Hd. of Dept.; R. S. Tripathi, M.A. Luck., Ph.D. Lond.; R. B. Pande, M.A., D.Litt. *Indian Langs.*: *Arabic and Persian*—M. Prasad, Maulvi Fazil, Panj.; S. A. Hasan, M.A. Patna. *Bengali*—B. Bhattacharyya, M.A. *Hindi*—R. C. Shukla, Hd. of Dept.; A. S. Upadhyaya; K. P. Misra, M.A.; P. D. Barthwal, M.A., D.Lit.; J. P. Sharma, M.A.; V. Mishra, M.A.; P. N. Acharya, M.A. *Marathi*—B. G. Khaparde. *Sanskrit*—S. K. Belvelkar, M.A. Bom., Ph.D. Harvard, Hd. of Dept.; B. N. Sarma, M.A.; S. L. Joshi, M.A.; B. Upadhya, M.A. *Urdu*—M. M. Prasad; S. A. Hasan, M.A., M.F. *Maths.*—V. V. Narlikar, B.A. Camb., B.Sc. Bom., Hd. of Dept.; B. M. Mehrotra, Ph.D. Liv.; S. C. D. Gupta, M.A. Calc.; J. Kishore, M.A.; S. Sastry, M.A.; B. L. Tripathi, M.A.; P. Nath, M.A. *Mod. European Langs.*—P. N. Roy, M.A. Calc., D.Lit. Rome. *Philos.*—S. K. Maitra, M.A., Ph.D. Calc., Hd. of Dept.: B. L. Atreya, M.A., D.Litt.; S. N. L. Dar, M.A.;

* Appointed Spalding Professor at Oxford from 1.10.36.

T. V. N. Murti, M.A. *Polit. Sci.*—G. N. Singh, M.Sc. (Econ.) Lond., Hd. of Dept.; M. B. Lal, M.A.; K. L. Varma, M.A. Instrs. in *Religion*: S. K. Joshi, B.A., LL.B.; A. Jaitly. Instrs. in *Physical Educ.*: N. Lal; G. S. Patwardhan.

COLLEGE OF SCIENCE. Principal (Offg.)—S. S. Joshi, D.Sc. Lond. *Bot.*—Hd. of Dept., Y. Bharadwaj, M.Sc., Panj., Ph.D. Lond., F.L.S. Asst. Profs.: N. K. Tiwary, M.Sc. All.; K. R. Mehta, M.Sc. Panj.; A. C. Joshi, D.Sc.; R. D. Mishra, M.Sc., Ph.D. Leeds; 3 Demrs. *Chem.*—Hd. of Dept., S. S. Joshi, D.Sc. Lond., M.Sc. Profs.: M. B. Rane, M.A. Bom.; S. K. Basu, M.Sc. All., Ph.D. Berlin; P. S. Varma, M.Sc. Calc. Asst. Profs.: D. N. Banerjee, M.Sc.; P. N. Roy, M.Sc.; 12 Demrs. *Chem., Industrial*—Hd. of Dept., N. N. Godbole, M.A., B.Sc. Bom., Ph.D. Berlin. Asst. Profs.: K. C. Trigunait, M.Sc.; D. Singh, F.S.O.; A. N. Ghosh; H. N. Bose, M.Sc. Calc.; K. D. Gupta, L.M.E.; 3 Demrs. *Chem., Pharmaceutical*—Hd. of Dept., M. L. Shroff, A.B. Cornell, M.Sc. Mass. Inst. Tech. Asst. Profs.: N. K. Basu, M.Sc.; D. N. Mazumdar, M.Sc. *Geol.*—Hd. of Dept., Rajnath, Ph.D. Lond.; Profs.: V. S. Dube, M.Sc., Ph.D. Lond., D.I.C.; K. P. Rode, M.Sc.; A. G. Jhingran, Ph.D. Sheff.; 1 Demr. *Glass Technology*—Hd. of Dept., V. S. Dube, M.Sc., Ph.D. Lond., D.I.C.; R. Charan, B.Sc.Tech., Sheff.; Y. Vershney, M.Sc. All. *Physics*—Hd. of Dept., B. Dasannacharya, M.A. Madr., Ph.D. Munich; Prof.: C. M. Sogani, D.Sc. Asst. Profs.: U. A. Asrani, M.Sc.; P. C. Ghosh, M.Sc.; 7 Demrs. *Zool.*—Hd. of Dept., A. B. Misra, D.Sc., D.Phil. Ox. Asst. Profs.: C. Bal, M.Sc.; K. N. Gupta, M.Sc.; R. C. Saksena, M.Sc.; 2 Demrs.

COLLEGES OF ORIENTAL LEARNING AND THEOLOGY. Principals: O.L.—Maha. Pt. B. Mishra; Theol.—Pandit Vidyadhar Gour. 30 other Profs.

TEACHERS' TRAINING COLLEGE. Principal, H. B. Malkani, M.A. Bom., C.T. 7 Assts.

ENGINEERING COLLEGE. Principal—H. P. Philpot, B.Sc. Lond. Profs. and Lectrs.: B. C. Chatterji, B.A., B.Sc., B.L., M.I.E.E.; R. S. Jain, B.Sc. Illinois; G. C. Mukheree, M.Sc.; K. H. Platt, B.Sc. Glas.; M. Pande, B.Sc., and 15 others. Arrangements have been made for holding, at the College, examns. of the City and Guilds of London Institute.

Department of Mining and Metallurgy. Head of Dept. and Univ. Prof. of Mining and Metallurgy—N. P. Gandhi, M.A., B.Sc., A.R.S.M., D.I.C. (on leave); D. Swarup, Ph.D., offg., and 6 others.

INSTITUTE OF AGRICULTURAL RESEARCH. Head—B. N. Singh, D.Sc.; A. Lal, M.Sc., Ph.D. Lond.; K. Kumar, M.Sc.; K. N. Lal, D.Sc.; B. N. Lal, M.Sc.; G. P. Kapoor, M.Sc.; R. S. Chaudhury, M.Sc.

LAW COLLEGE. Hon. Profs.: Sir Tej Bahadur Sapru, K.C.S.I., M.A., LL.D. (Dean); K. N. Katju, M.A., LL.D.; A. P. Dube, M.A., B.C.L.; A. N. Sanyal, M.A., LL.B. Lond.; Wali Ullah, M.A., B.C.L., LL.D.; K. Narain Malaviya, M.A., LL.B., S.J.D. Harv.; Tek Chand, M.A., B.C.L. Others: L. R. Siva Subramaniam, B.A., M.L. Madr.; Pandit B. N. Vyas, M.A., LL.B. All.; G. B. Joshi, M.A. All., LL.M. Bom.

THE WOMEN'S COLLEGE. Principal and Lectr., Mrs. K. Venkateshwaram, M.A. Lectrs.: Miss Y. R. Manurkar, M.A.; Mrs. Jamuna Devi; Mrs. B. Janaki, M.B., B.S.; Miss R. Leela, M.A.; Miss M. Mulla, M.A.; Miss S. Gupta, M.A.; Mrs. U. Kichlu; Mrs. P. Dharma, M.A.

GENERAL INFORMATION

The University was founded in 1916. For early history, see *Yearbook* for 1930.

The Univ.'s assets, including perpetual grants by the Govt. of India and by Ruling Chiefs of Rs. 3,00,000 and 75,000 respectively, are valued at Rs. 3,00,00,000.

Every member of the *Court*, the supreme governing body, must be a Hindu. It includes representatives of benefactors, graduates, the Senate, the Jain and Sikh communities, Hindu religion and Sanskrit learning, the learned professions. Of the *Senate*, the academic body, at least three-fourths must be Hindus; it includes (1) the Chancellor, Pro-Chancellor, Vice-Chancellor, Pro-Vice-Chancellor, Univ. Profs., and Principals or Heads of Colleges as *ex-officio* members; (2) 5 members nominated by the Visitor; (3) elected members, including representatives of the Court, of Hindu religion and Sanskrit learning, and graduates. The *Council* and *Syndicate* are the executive bodies of the Court and Senate respectively.

LIBRARY, 98,000 vols. LABORATORIES: Chem., Physics, Zool., Bot., Agricultural Bot., Geol., Ceramics, Glass Technol., Mining and Metallurgy. The Engineering College laboratories include a shop equipped for manufacturing machines, smith and paint shops, an iron and brass foundry and a motor-car repair shop; a power-house is also attached to the College.

ADMISSION. The Univ. is, subject to regns., open to persons of all classes, creeds, and castes, but provision is made for religious instruction (which is compulsory for Hindu students) and examination in the Hindu religion only. Women are eligible for admission to the Univ. and examns., degrees, etc.

FACULTIES. Oriental Learning, Theology, Arts, Science, Technology, Law, and Indian Med. and Surgery (Ayurveda).

DEGREES. B.A., M.A., D.Litt., B.Sc., B.Sc. (Ind. Chem.), B.Sc. (Glass Tech.), B.Sc. in Appl. Sc. (Engin.), B.Sc. (Mining), B.Sc. (Metallurgy), M.Sc., D.Sc., B.Pharm., Shastri, Shastracharya, Ayurvedacharya, Smritiratna, Smritisagara, Dharmashastri, Dharmacharya, LL.B., LL.M., LL.D., B.T. The admission qualification for Degree course (4 yrs.) in Mining or in Metallurgy is Interm. Sc. examn. of an Indian Univ. or Board of Interm. Education, with Physics, Chem., and Maths.

RESIDENCE. Students are required to live in a Univ. or College Hostel, or, subject to the approval of the Pro-Vice-Chancellor, with parents or guardians. There are 8 hostels accommodating 2000 students and 100 residences for members of the staff.

SCHOLARSHIPS. 20 for Arts and Science students of merit, 20 for Teachers Training College. Numerous other College Scholarships.

PUBLICATIONS. *Calendar* (occasionally); *Magazine* (quarterly).

THE YEAR 1937–38

BENEFACTIONS. Rs. 78,532.

NEW CONSTRUCTION. A canal 50 ft. wide and half a mile in length has been constructed to irrigate the Univ. campus.

NEW DEPARTMENT. Dept of Glass Technology with courses of instruction for the B.Sc. and M.Sc. Degrees in Glass Technology.

VISIT OF THE BRITISH SCIENCE DELEGATION. The most important event of the year was the visit to the Univ. of the British Science Delegation under the leadership of Sir James H. Jeans. The members of the Delegation were the guests of the Univ. The following is a list of lectures delivered by some of the members of the Delegation: Sir A. S. Eddington, "Expanding Universe";

Prof. V. H. Blackman, " Plant Physiology " ; Dr. F. W. Aston, " Isotopes " ; Prof. E. C. C. Baly, " Photo Synthesis " ; Prof. F. A. E. Crew, " Biology of Death " ; Dr. Carl G. Jung, " Psychoanalysis " ; Prof. E. Barker, " Idea of Empire in History " ; Lord Samuel, " Science and Philosophy."

HONORARY DEGREES. *LL.D.*—H.H. Nawab Syed Raza Ali Khan Bahadur of Rampur ; H.H. Raja Sir Narendra Shah of Tehri-Garhwal ; Lord Hardinge of Penshurst ; H.H. Maharaja Sir Sri Krishnaraja Wadiyar Bahadur of Mysore ; H.H. Maharaja Maharana Sir Bhupal Singh Bahadur of Udaipur ; H.H. Sir Ram Varma of Cochin ; Dr. C. Y. Chintamani. *D.Litt.*—H.H. the Maharani Gaikwar of Baroda ; H.H. the Senior Maharani of Travancore ; H.H. the Junior Maharani of Travancore ; H.H. the Maharani of Bikaner ; Dr. Carl G. Jung ; M.M. Dr. Ganganath Jha ; M.M. Pandit Gaurishankar Hirachand Ojha. *D.Sc.*—Sir James H. Jeans ; Prof. Sir A. S. Eddington ; Dr. F. W. Aston ; Prof. E. C. C. Baly ; Prof. V. H. Blackman ; Prof. F. A. E. Crew.

RETIREMENTS. R. B. K. V. Rangaswamy ; Prof. P. K. Duff, and Prof. B. N. Vyas.

STUDENTS. Full-time : 3411, including 420 graduates.

DEGREES. B.A., 193 ; M.A., 59 ; B.T., 70 ; B.Sc., 166 ; M.Sc., 54 ; B.Sc. (Engin.), 40 ; B.Sc. (Mining), 1 ; B.Sc. (Metall.), 16 ; LL.B. (Final), 85 ; D.Sc., 1 ; Shastri, 41 ; Shastracharyya, 16 ; Ayurvedacharyya, 19.

UNIVERSITY OF BOMBAY

Founded 1857

CHANCELLOR—H.E. THE GOVERNOR OF BOMBAY.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—V. N. CHANDAVARKAR, B.A. Camb.

REGISTRAR—S. R. DONGERKERY, B.A., LL.B.

UNIVERSITY SCHOOL OF ECONOMICS AND SOCIOLOGY

Prof. of Economics—C. N. Vakil, M.A., M.Sc. Lond.
Prof. in Sociology—G. S. Ghurye, M.A., Ph.D. Camb.
Reader in Sociology—N. A. Toothi, D.Phil. Ox., B.A.
Reader in Economics—Dwarkanath Ghosh, M.A.

WILSON PHILOLOGICAL LECTURER for 1937–38, The Rev. A. Esteller, S.J.

UNIVERSITY DEPARTMENT OF CHEMICAL TECHNOLOGY

Mody Prof. and Hd. of Dept. of Chem. Technol.—Venkataraman, K., M.A. Madr., M.Sc.Tech., Ph.D., D.Sc. Manc., F.I.C.

Chemical Engineering: Reader—Damle, N. R., Ph.D. Lond., M.Sc., A.I.I.Sc. Demr.—Kane, J. G., M.Sc., A.I.I.Sc.

Chemistry, Industrial and Tinctorial: Lectr.—Mehta, T. N., Ph.D. Lond., B.A., B.Sc., D.I.C., A.I.C. Demr.—Thosar, V. B., B.A., M.Sc.

Dyeing and Printing: Reader—..... Lectr.—Jambuserwala, G. B., M.Sc.Tech. Manc., B.Sc. (Experimental D.).

Fuel Technology: Mandlekar, M. R., Ph.D. Lond., D.I.C.

Mech. Engineering and Drawing: Demr.—Sathe, P. K., B.E.(Mech.).

Optics: Research Asst.—Vaidya, B. K., M.Sc., Ph.D. Liv.

8 Part-time Lectrs. in: Colloids, German, Indust. Admin., Indust. Relations, Maths., Textile Design, Yarn and Cloth. 4 Works Staff.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

AHMEDABAD, *Gujarat College* (Govt.). Recognized in courses for B.A., M.A., B.Sc. Principal—G. F. Shirras, M.A. Aberd., F.S.S. Profs.: *Chem.*—M. S. Shah, Ph.D. Lond., D.I.C. *English*—S. S. Bhandarkar, B.A.; K. H. Kelkar, M.A. *French*—S. P. Taraporewala, M.A., LL.B. *Gujarati*—A. M. Raval, M.A. *Hist.*—..... S. G. Deshpande, M.A. *Maths.*—S. M. Shah, M.A. *Persian*—H. I. Sayani, M.A. *Physics*—K. R. Dixit, Ph.D. Lond. *Sansk.*—K. V. Abhyankar, M.A. *Zoology*—J. J. Asana, M.A. Camb. 22 Asst. Lectrs.

AHMEDABAD, *H.L. College of Commerce.* In Arts for B.Com. Under control of Ahmedabad Educ. Soc. Principal and Prof. of Business Organ. and Adv. Accounting—S. R. Rallan, B.Com. Birm. 9 other Profs.

AHMEDABAD, *Law College.* Under control of the Gujarat Law Society. Principal—P. J. Shroff, B.A., LL.B. 6 other Profs.

AHMEDABAD, *Seth Lalbhai Dalpatbhai Arts College.* In Arts for B.A. Under

control of Ahmedabad Educn. Soc. Principal and Prof. of Economics—V. K. R. V. Rao, M.A., Ph.D. Camb. 16 other Profs. and Lectrs.

BARODA, *College* (State). In courses for M.A., M.Sc., B.A., B.Sc. Principal—S. G. Burrow, B.Sc. Lond., A.R.C.S. Profs.: *Biol.*—S. V. Shevde, B.Sc. *Chem.*—K. G. Naik, M.A., D.Sc., D.I.C. Lond.; M. D. Avasare, B.A., M.Sc. *Engl.*—Prof. P. C. Romans, M.A. Camb.; V. S. Tilak, B.A. Camb.; S. M. Wadia, M.A.; S. S. Joshi, M.A. *Hist. and Pol. Econ.*—J. M. Mehta, M.A. Ox. K. H. Kamdar, M.A. *Logic and Mor. Philos.*—A. K. Trivedi, M.A., LL.B.; M. A. Buch, M.A. *Maths.*—Gajanan G. Pendse, M.A.; B. B. Sengupta, M.A. Calc., B.L.; K. M. Shah, M.Sc. *Pers.*—M. A. Kazi, M.A. *Phys.*—S. G. Burrow, B.Sc. Lond.; N. K. Apte, M.A., B.Sc. *Sansk.*—B. C. Lele, M.A., Ph.D. 17 other Lectrs., etc.

BELGAUM, *K.L.E. Society's Arts College.* Principal—Dr. S. C. Nandimath, Ph.D. 14 other Profs. and Lectrs.

BHAVNAGAR, *Samaldas College* (State). In B.A. courses. Principal, and Prof. of *Engl. and Hist.*—T. K. Shahani, M.A. 20 other Profs. and Lectrs.

BOMBAY, *Cama and Allbless Hospitals.* In Midwifery courses for the M.D.

BOMBAY, *Elphinstone College* (Govt.). In Arts and Sci. Principal, and Prof. of *Hist. and Econ.*—G. B. Jathar, B.A. Camb., M.A. Edin. Other Profs.: *English*—G. C. Bannerjee, B.A. Ox., M.A.; J. O. Bartley, M.A. Belf. *French*—V. G. Rao, B.A. Camb. *Hist. and Pol. Econ.*—R. P. Patwardhan, B.A. Ox. *Logic and Mor. Philos.*—B. N. Seal, B.A. Camb. *Maths.*—D. P. Patravali, B.A. Camb. *Sansk.*—A. B. Gajendragadkar, M.A., and 15 others.

BOMBAY, *Government Law College.* Principal—B. R. Ambedkar, M.A., Ph.D., D.Sc. Profs.: N. H. Coyajee, B.A.; S. B. Jathar, B.A., LL.B.; L. F. Rodriques, B.A., LL.B.; M. S. Vakil, B.A., LL.B.; Y. V. Dixit, B.A., LL.B.; K. N. Dharap, B.A., LL.B.; N. K. Petigara, B.A., LL.B.; K. S. Shavaksha, B.A. Ox.; F. G. R. Khairaz, M.A.; G. N. Joshi, M.A., LL.B.

BOMBAY, *Grant Medical College* (Govt.). In Med. and in B.Sc. courses. Principal and Prof. of *Physiol. and Histol.*—Lt.-Col. S. L. Bhatia, M.D. Camb., I.M.S. Profs.: *Bact.*—P. A. Dalal, L.M. & S., D.T.M. & H. Camb. *Med. Jurisprudence*—H. S. Mehta, M.B., M.S. *Med.*—Lt.-Col. S. S. Vazifdar, M.R.C.P., I.M.S. *Mat. Med. and Pharmacy*—J. R. Patel, M.B., B.S. *Midw. and Dis. of Women and Children*—Major W. C. Spackman, M.B., F.R.C.S. *Surg.*—S. R. Moolgavkar, F.R.C.S. *Ophth.*—Lt.-Col. Sir J. N. Duggan, C.I.E., O.B.E., L.M. and S., D.O. Ox., I.M.S. *Phys.*—D. M. Telang, B.Sc., M.D. *Operative Surg.*—V. L. Parmar, M.B., B.S., F.R.C.S. *Laryng., etc.*—C. A. Amesur, M.S. Lond., D.L.O. *Anæsth.*—E. J. Ramdas, M.S. *Elec.-Therap.*—P. M. Desai, M.R.C.S., L.R.C.P., D.M.R.E. Camb. *Hygiene*—H. D. Khote, M.B., B.S., M.R.C.P., D.P.H. *Dentistry*—D. V. Pandit, B.Sc., M.B., B.S., L.D.S., R.C.S. (Eng.). *Anat.*—R. C. Motwani, M.S. *Pathology*—P. V. Gharpure, M.D., D.T.M & H. 12 Asst. Profs.

BOMBAY, *Ismail College, Andheri* (Govt.). In Arts and Sc. Principal, and Prof. of *Persian*—M. B. Rehman, M.A., Ph.D. Camb. *Eng.*—F. Correa-Afonso, M.A., LL.B. 16 other Profs. and Lectrs.

BOMBAY, *Khalsa College.* In Arts for B.A., and Sci. up to Inter. Under control of Sarab-Hind Sikh Mission. Principal and Prof. of *Eng.*—Sardar Kashmira Singh, M.A. 20 other Profs. and Lectrs.

BOMBAY, *Municipal Laboratory.* In Chem. courses for the B.Hy. examn.

BOMBAY, *Ramnarain Ruia College.* In Arts and Sci. Under control of Shikshana Prasarak Mandali. Principal and Prof. of *Chem.*—V. K. Bhagwat, M.Sc., Ph.D. 15 other Profs. and Lectrs.

BOMBAY, *Royal Institute of Science* (Govt.). In Science for B.Sc., M.Sc. and Ph.D. Principal, and Prof. of *Org. Chem.*—..... Other Profs.: *Phys.*—G. R. Paranjpe, M.Sc. *Zool.*—P. R. Awati, B.A. Camb., D.I.C. *Bot.*—F. R. Bharucha, D.Sc. *Maths.*—K. R. Gunjikar, B.Sc., M.A. Camb. *Inorg. and Phys. Chem.*—Mata Prasad, D.Sc., and 10 Asst. Lectrs.

BOMBAY, *St. Xavier's College* (S.J.). In Arts for B.A. and M.A.; in Science for B.Sc. and M.Sc. Principal, and Prof. of *Chem.*—Rev. G. Palacios, S.J. Other Profs.: *Chem.*—J. F. Caius, and 4 others. *Engl. Lit.*—J. Fell, and 2 others. *French Lit.*—Rev. J. Dühr, S.J., and another. *Geology*—A. S. Kalapesi, B.A., B.Sc., Ph.D., D.I.C. *Hebrew*—A. S. Rubens, M.A. *Hist.*—H. Heras, A. C. Fernandez, M.A., G. M. Moraes. *Latin*—C. Ghezzi, S.J., and A. L. Menezes, M.A. *Maths.*—R. Rafael and another. *Persian and Arabic*—Syed M. S. Reza. *Philos.*—M. Sola, M.A., Ph.D. *Physics*—R. Rafael, S.J. *Sansk.*—K. M. Shembavnekar, M.A.; Rev. A. Esteller, S.J. *Zool.*—J. P. Mullan, M.A. 24 other Teachers.

BOMBAY, *Secondary Training College* (Govt.). Trains graduates in Arts and Sci. for B.T. and M.Ed. Principal, H. V. Hampton, M.A. 8 other Lectrs.

BOMBAY, *Seth G.S. Medical College* (Munic.). In Medicine. Dean and Prof of *Med.*—J. N. Mehta, M.D., M.R.C.P. Profs.: *Path. and Bact.*—V. R. Khanolkar, M.D., B.Sc. *Anat.*—R. P. Koppikar, M.S. *Physiol.*—S. P. Niyogi, M.Sc., M.B. *Pharm. and Mat. Med.*—A. S. Paranjpe, M.D., D.T.M., Ch.B. 32 Lecturers and Honorary Lecturers.

BOMBAY, *Sydenham College of Commerce and Economics* (Govt.). In Arts for B.Com. and M.Com. Principal, and Prof. of *Engl., Cotton Trade,* etc.—M. J. Antia, M.A. Camb., I.E.S. Other Profs.: *Accounting and Auditing*—P. C. Hansotia, B.Com., F.S.A.A. *Actuarial Science*—G. S. Diwan, M.A. *Econ.*—S. G. Beri, M.A. *Mercantile Law*—G. K. Rage. *Admin.*—G. M. Sankpal, M.A. Camb. *Statistics*—H. L. Kaji, M.A., B.Sc., I.E.S. *Banking*—S. K. Muranjan, M.A., B.Sc. Lond.

BOMBAY, *Wilson College* (U.F. Church of Scotland). In Arts; in Science for M.Sc. Principal, and Prof. of *Philos.*—J. McKenzie, M.A. Aberd. Other Profs.: *Biol.*—M. Ezekiel, M.Sc.; C. J. George, Ph.D., D.I.C. Lond. *Econ.*—J. Kellock, M.A. *Engl. and Latin*—Rev. J. B. Primrose, M.A. *Engl. Lit.*—R. D. Choksi, M.A. *French*—M. J. Dave, M.A., Ph.D. Dub., D. ès L. Montpellier; B. M. Mehta, M.A. *Maths.*—J. McLean, M.A., B.Sc. Aberd. *Persian*—J. W. Sadiq, M.A. *Philos.*—B. P. Hivale, M.A., Ph.D. *Philos. and Hist.*—P. A. Wadia, M.A. *Physics*—H. J. Taylor, M.Sc.; D. B. Naik, M.A., B.Sc., LL.B. *Sansk.*—Hari D. Velankar, M.A. 22 other Teachers.

DHARWAR, *Karnatak College* (Govt.). In Arts and Sc. Principal, and Prof. of *Indian Hist. and Econ.*—A. C. Farran, B.A. Dub. Other Profs.: *English*—D. A. Dhruva, B.A. Ox. *Sansk.*—V. G. Bhat, M.A. Camb. *Pers.*—..... *Maths.*—B. B. Bagi, M.A. *Logic and Philos.*—A. D. Dhopeshwarkar, M.A., LL.B. 18 Profs. and Lectrs.

HYDERABAD (SIND), *Dayaram Gidumal National College.* In Arts. Principal, and Prof. of *Hist. and Pol.*—B. R. Kumar, M.A. 11 other Profs. and Lectrs.

JUNAGADH, *Bahauddin College* (State). In Arts. Principal, and Prof. of

Philos.—M. M. Zahuruddin Ahmed, M.A., LL.B. Other Profs.: *Engl.*—K. L. Oza, M.A. *Maths.*—D. M. Metha, M.A., Ph.D. *Pers.*—M. H. Tirmizy. *Sansk.*—N. B. Purohit, M.A.; S. G. Shastri, M.A., LL.B. *Science*—Vasudev S. Ghurye, M.A. *Hist. and Pol. Econ.*—M. J. Pathakji, M.A., LL.B. 9 Profs. and Asst. Profs.

KARACHI, *Dayaram Jethmal Sind College.* Under control of the Sind Collegiate Board. In Arts; in Science for B.Sc. and M.Sc. Principal and Prof. of *Phys.*—N. B. Butani, M.A., B.Sc. Other Profs.: *Biol.*—M. G. Punvani, B.A., M.B. *Chem.*—J. V. Lakhani, M.Sc. *Engl.*—T. M. Advani, M.A., LL.B. *Hist.*—D. T. Mariwalla, M.A. *Philos.*—G. G. Kewalramani, M.A., LL.B. *Maths.*—A. L. Shaikh, B.A., B.Sc. *Pers.*—Hotchand M. Gurbaxani, M.A. 24 other Teachers.

KARACHI, *Law College.* Under control of the Sind Collegiate Board. Principal—P. S. Shahani, Bar.-at-Law. 8 other Profs.

KARACHI, *Nadirshaw E. Dinshaw Civil Engineering College.* Under control of the Sind Collegiate Board. Principal and Prof. of *Struct. Engin. and Hydraulics*—S. B. Junnarkar, B.Sc. Lond., B.A. Other Profs.: *Engin.*—M. H. Advani; J. T. Shahani. *Engin., Mechanical*—N. Bhattacharya, B.Sc. Ben. *Geol.*—M. B. Pithawala, B.A., B.Sc. *Maths.*—M. K. Kewalramani, M.A. *Elec. Eng.*—K. V. Kardile, B.Sc. 6 other Teachers.

KOLHAPUR, *Law College.* Principal—S. K. Kelavkar, B.A., LL.B. 6 other Profs.

KOLHAPUR, *Shree Maharanee Tarabai Teachers' Training College.* Trains graduates in Arts and Sci. for B.T. and M.Ed. Principal—K. S. Vakil, B.A., M.Ed. 10 Assistants.

KOLHAPUR, *Rajaram College* (State). In Arts (up to B.A. Hons.) and in Science for B.Sc. Principal and Prof. of *Hist. and Econ.*—Balkrishna, M.A. Panj., Ph.D. Lond. 30 other Profs. and Teachers.

NASIK, *H.P.T. College.* In Arts. Under control of the Gokhale Educn. Soc. Principal, and Prof. of *History*—T. A. Kulkarni, B.A. 15 other Profs.

POONA, *Fergusson College.* In Arts; in Science for B.Sc. and M.Sc. Under control of the Deccan Educn. Soc. Principal and Prof. of *Maths.*—G. S. Mahajani, B.A. Other Profs.: *Bot. and Zool.*—Dhundiraj L. Dixit, B.A. *Chem.*—G. B. Kolhatker, M.A.; D. D. Karve, Ph.D. *Engl.*—R. K. Khandekar, M.A., K. G. Pandit, M.A.; V. K. Gokak, M.A. *Engl. and Marathi*—S. N. Chapekar, M.A. *German*—V. V. Gokhale, Ph.D.; N. K. Gharpure, Ph.D. *Hist. and Pol. Econ.*—P. M. Limaye, M.A. *Maths.*—R. P. Shintre, M.A.; V. A. Apte, M.A., L.T.; G. S. Mahajani, M.A. *Philos.*—N. G. Damle, M.A. *Pers.*—B. D. Verma, M.A. All. *Sansk.*—C. R. Devadhar, M.A. 29 other Teachers.

POONA, *Agricultural College* (Govt.). B.Sc. (Agri.) and College Diploma courses. Principal and Prof. of *Agric.*—V. A. Tamhane, M.Sc., M.Ag., I.A.S. *Chem. and Geol.*—J. A. Daji, Ph.D. Lond. *Agric.*—K. S. Kulkarni, B.Ag. *Entom.*—T. N. Jhaveri. *Hort.*—G. S. Cheema. *Agric. Engin., etc.*—J. P. Trivedi, L.C.E. *Agric. Econ., etc.*—M. B. Ghatge, Ph.D. Wales. 13 other Teachers.

POONA, *College of Engineering* (Govt.). In Engin. (Civ. and Mech.) courses. Principal and Prof. of *Elec. Engin.*—Shiv Narayan, M.A., B.Sc. Panj., M.Sc., B.E. (Union U.S.A.), M.A.I.E.E. Other Profs.: *Civil Eng.*—N. S. Gupchup, B.Sc. Edin., B.E. *Chem. and Geol.*—G. G. Narke, M.A. Calc., M.Sc. Manc. *Applied Mechs.*—J. A. Taraporewala, B.Sc. Bom. and Edin. 19 other Teachers.

POONA, *Nowrosjee Wadia College.* In Arts for B.A. ; in Science for B.Sc., up to Intermediate. Principal.—V. K. Joag, M.A. 28 other Profs. and Lectrs.

POONA, *Poona Law College.* Under control of the Indian Law Society. Principal—J. R. Gharpure, B.A., LL.B. 8 other Profs.

POONA, *Sir Parashurambhau College.* In Arts; in Science for B.Sc. Under control of Shikshana Prasarak Mandali. Principal and Professor of *Engl. and Sansk.*—R. D. Karmarkar, M.A. Other Profs.: *Chem.*—B. V. Bhide, M.Sc. *Engl.*—H. V. Tulpule, B.A., LL.B.; B. D. Sattigisi, M.A., LL.B. *Maths.*—D. W. Kerkar, B.A. Camb. *Philos.*—S. V. Dandekar, M.A.; V. P. Patwardhan, M.A. *Marathi*—S. M. Mate, M.A. 24 other Teachers.

RAJKOT, *Dharmendrasinhji College* (State). In Arts and Sci. up to Inter. Principal and Prof. of *Sanskrit.*—T. N. Dave, Ph.D. Lond., M.A., B.T. 11 other Profs. and Lectrs.

SANGLI, *Willingdon College.* In Arts. Under control of the Deccan Educn. Society, Poona. Principal and Prof. of *Hist. and Econ.*—D. G. Karve, M.A. 15 other Profs.

SHIKARPUR (Sind), *Chellasing and Sitaldas Arts College.* Principal—N. D. Gurbaxani, M.A. 11 other Profs. and Lectrs.

SURAT, *M.T.B. College.* In Arts and Sci. for B.Sc. Under control of Sarvajanik Educn. Soc., Surat. Principal and Prof. of *Maths.*—N. M. Shah, M.A. Camb. 27 other Profs.

SURAT. *Sarvajanik Law College.* Principal—C. M. Gandhi, B.A., LL.B. 13 other Profs.

GENERAL INFORMATION

Founded in 1857, the Univ. has concerned itself mainly with examinations, and maintained no teaching staff until 1913. Since then it has provided annually lectures for postgraduate students in English, History, Economics, Sociology, Sanskrit and Mathematics. In 1919 it established a School of Economics and Sociology for research in these subjects. In 1933, the Department of Chemical Technology was instituted.

LIBRARY (established 1864, owing to Premchand Roychand Benefaction, Rs. 4,00,000), 35,000 vols., including Fawcett Collection (Econ.).

FACULTIES. Arts, Science, Technol. (including Agric. and Engin.), Law, Medicine.

DEGREES. B.A., M.A., D.Litt.; B.Com., M.Com.; LL.B., LL.M.; B.Sc., M.Sc., D.Sc.; B.T., M.Ed.; B.E. (Civ., Mech., Elect.), M.E.; B.Sc. (Tech.), M.Sc. (Tech.); B.Sc. (Agri.), M.Sc. (Agri.); M.B., B.S., M.D., M.S., B.Hy., D.Hy.; Ph.D. DIPLOMA in Ophthalmology (D.O.).

RECOGNITION of examns. of other Univs.: Interm. Arts and Sc. examns. of other Indian Univs. and London, and also B.A., B.Sc., LL.B. of some of the Indian Univs.

FEES for Univ. postgrad. courses, Rs. 30 per term. Dept. of Technology—Rs. 125 for graduates of Bombay Univ., Rs. 200 for graduates of other Univs.

RESIDENCE. Board and lodging at University Hostel and also at Colleges generally from Rs. 40 to Rs. 75 p.m.

SCHOLARSHIPS, ETC., FOR GRADUATES. In Sanskrit, Bhugwandass Purshotumdass, Rs. 720; Law, Sir Mangaldas Nathubhai, Rs. 1000 p.a. for 3 yrs.; Travelling Fellowship, Rs. 700 p.a. for 3 yrs. for Hindus; Technical educn.

in England for Hindus, Rs. 2000 p.a. for 3 yrs.; Springer Research Scholp. Lectureships: Wilson Philological, Rs. 750 (6 cold weather lectures); Bhagvanlal Indraji, Rs. 1000 (6 lectures on Indian Epig., etc.); Bhimrao Ramrao Research Scholp., Rs. 2400 p.a. for 3 years. The Sir Pherozeshah M. Menta Research Scholp., Rs. 850 p.a. for 3 years for research in History or Economics. Thakkar Vassonji Madhavji Lectureship, Rs. 1,000 for not less than 5 lectures.

Sir Currimbhoy Ebrahim endowment (3½ p c. Govt. securities, nominal value, Rs. 10,00,000) for scholarships by way of advances (repayable) to Mahomedan students going to foreign countries for higher studies in Medicine, Philology, Ancient History, Arabic, Architecture, Town-planning, and Technological and Industrial subjects and for the superior services: Rs. 3600 p.a. for 3 yrs.

The Edaljee Dinshaw Scholarships—14 scholps. of the aggregate value of Rs. 25,000 p.a. tenable for 3 years, and open to members of the Parsi Community under certain conditions.

INSPECTION OF COLLEGES is conducted by means of committees.

INSPECTION OF SCHOOLS applying for recognition for purposes of the Matriculation examn. is arranged for by the Syndicate.

PUBLICATIONS. *Handbook* (July), Rs. 3; *Calendar* (Dec.), Rs. 6; *Examination Papers*, Rs. 6-8; *University Journal*, Rs. 14.

THE YEAR 1937-38

STUDENTS. Full-time: 18,193.

DEGREES. B.A., 1370; M.A., 125; D.Litt., 1; B.Com., 78; M.Com., 2; LL.B., 471; LL.M., 4; B.Sc., 342; M.Sc., 34; D.Sc., 1; B.T., 110; B.E., 86; M.E., 1; B.Sc. (Tech.), 15; M.Sc. (Tech.), 3; B.Ag., 22; M.Ag., 2; B.Sc. (Agri.), 12; M.B., B.S., 195; M.D., 5; Ph.D., 4; D.O., 2.

UNIVERSITY OF CALCUTTA

Founded 1857

CHANCELLOR—H.E. THE GOVERNOR OF BENGAL.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—The Hon. KHAN BAHADUR M. AZIZ-UL-HUQUE, C.I.E., B.L., M.L.A.

PRESIDENTS, POST-GRADUATE COUNCIL—SYAMAPRASAD MOOKERJEE M.A., B.L., M.L.C.—Arts; Sir NILRATAN SIRCAR, M.A., M.D., LL.D., D.C.L., F.S.M.F. (Bengal)—Science.

REGISTRAR—J. C. CHAKRAVORTI, M.A.

CONTROLLER OF EXAMINATIONS—B. B. DUTT, M.A., B.L., Ph.D.

INSPECTOR OF COLLEGES—SASTISCHANDRA GHOSH, M.A.

SECRETARY TO THE COUNCILS FOR POST-GRADUATE STUDIES IN ARTS AND SCIENCE—S. N. MITRA, M.A.

TEACHING STAFF

Agriculture

..... G. P. Singh Prof.

Art

Suhrawardy, S., B.A. Ox. Bageswari Prof. of Indian Fine Arts

Biochemistry

Brahmachari, Rai Bahadur Sir U. N., M.A., M.D., Ph.D., F.R.A.S.B., F.N.I. Hon. Prof.

Botany

Agharkar, S. P., Ph.D. Berlin, M.A. Sir R. B. Ghose Prof.

Chemistry

Mitter, P. C., M.A., Ph.D. Berl. Sir T. N. Palit Prof.

Mukherji, J. N., D.Sc. Sir R. B. Ghose Prof.

Guha, Bireschandra, D.Sc. Lond. (Applied C.) Sir R. B. Ghose Prof.

Ray, P. R., M.A., F.N.I. G. P. Singh Prof.

Economics [Minto Prof.

Niyogi, J. P., M.A., Ph.D.

English

Mookerjee, H. C., M.A., Ph.D., M.L.A. Prof.

History and Culture, Ancient Indian

Raychaudhuri, H. C., M.A., Ph.D. Carmichael Prof.

History, Mediæval and Modern Indian

Sen, S. N., B.Litt. Ox., M.A., Ph.D. Asutosh Prof.

Hygiene and Public Health

Suhrawardy, Lt.-Col. Sir Hassan, O.B.E., V.H.S., LL.D. Lond., M.D., F.R.C.S.I., D.P.H. Dub., D.Sc. Hon. Prof.

Indian Vernaculars

Mitra, Rai Bahadur K. N., M.A. R. Lahiri Prof.

Islamic Studies [Asutosh Prof.

Siddiqi, Md. Z., M.A., B.L., Ph.D.

Mathematics, Applied

Sen, N., D.Sc. Sir R. B. Ghose Prof.

Mathematics, Pure

Levi, F., Dr. Phil. Nat. Hardinge Prof.

Mental and Moral Science

Radhakrishnan, Sir S., M.A., D.Litt. George V. Prof.

Pali [Prof.

Barua, B. M., M.A., D.Lit. Lond.

Phonetics and Indian Linguistics

Chatterji, S. K., M.A., D.Lit. Lond. G. P. Singh Prof.

Physics, Applied

Ghosh, P. N., Sc.D. Padua, M.A., Ph.D , F.Inst.P. Sir R. B. Ghose Prof.

Physics, Pure [Palit. Prof.

Saha, Meghnad, D.Sc., F.R.S.

Mitra, S. K., M.B.E., D.Sc. Sir R. B. Ghose Prof.

Ray, B. B., D.Sc. G. P. Singh Prof.

Physiology

Mahalanobis, S. C., B.Sc. Prof.

Sanskrit

Sastri, Mahamahopadhyaya Vidhusekhara Asutosh Prof.

Zoology

Mookerjee, H. K., D.Sc. Lond., D.I.C. Prof.

Tagore Professor of Law

1938, ...

Subject—.....

POSTGRADUATE TEACHERS IN ARTS. *Economics*, 22; *English*, 22; *History*, including *History and Culture, Ancient Indian*, 40; *Indian Vernaculars*, 20; *Mathematics, Pure*, 14; *Sanskrit*, 28; *Pali*, 16; *Persian and Arabic*, 14; *Philology, Comp.*, 8; *Philosophy*, 22; *Psychology, Expl.*, 10; *Anthropology*, 15; *Commerce*, 20.

POST-GRADUATE TEACHERS IN SCIENCE. *Botany*, 9; *Chemistry*, 20; *Chemistry, Applied*, 12; *Geology*, 7; *Mathematics, Applied*, 13; *Physics*, 14; *Physics, Applied*, 11; *Physiology*, 8; *Zoology*, 8.

UNIVERSITY LAW COLLEGE. Principal—P. N. Baniza, M.A., B.L., M.L.A. Vice-Principal—A. C. Karkoon, M.A., B.L., and 30 Professors.

AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES

[B.A., M.A., B.Sc., M.Sc., B.Com., etc. = affiliated up to B.A., M.A., etc., standard.]

BAGERHAT, *Praphullachandra College*. B.A. Principal—K. C. Nag, M.A. 21 other Teachers.

BANKURA, *Bankura College*. B.A. and B.Sc. Principal—C. F. Ball, B.A. Lond. 24 other Teachers.

BARISAL, *Brojomohan College*. B.A. and B.Sc. Principal—C. H. Ray, M.A. 39 other Teachers.

BELGACHIA, *Carmichael Medical College*. M.B. Principal—M. N. Bose, M.B., C.M. Edin. Profs.: *Anat.*—The Principal. *Bot.*—S. Bose, M.A., B.L., Ph.D., F.L.S. *Chem.*—S. Roy, Ph.D. Camb., M.Sc.; M. Sen, M.Sc. *Hygiene*—T. N. Majumdar, L.M.S., D.T.M., D.P.H. *Jurispr.*—Major D. Ahmed, O.B.E., V.H.A.S., A.I.R.O. *Mat. Med. and Pharmacol.*—B. N. Ghosh, F.R.F.P. & S. Glas., L.M. Dub. *Med.*—B. C. Roy, M.R.C.P. Lond., F.R.C.S., M.D. *Midwif. and Gynæcol.*—B. Mukherjee, L.M.S., M.C.O.G.; S. Bagchi, M.Sc., M.B., M.O. *Ophthalmic Surg.*—M. N. Chatterjee, M.B.; S. K. Mukherji,

D.O. Ox., D.O.M.S. Lond., F.R.C.S. Edin. *Pathol.*—C. Bose, B.A., M.B. *Physics*—M. Ray, D.Sc. Paris, M.Sc., Ph.D. *Physiol.*—S. C. Mahalanobis, B.Sc. *Surg.*—L. Banerjee, M.B., M.S., F.R.C.S. Eng.; Col. K. K. Chatterjee, F.R.C.S.I.; S. Datta, M.B., F.R.C.S. Edin., L.M. Dub.; B. Mitra, F.R.C.S. Edin.; S. Maitra, F.R.C.S. Edin. *Tropical Med.*—Sir Upendranath Brahmachari, M.A., M.D., Ph.D., F.N.I., F.R.S.A.B. *Zool.*—T. Poddar, M.Sc., M.B. 64 other Teachers.

BERHAMPUR, *Krishnath College.* B.A. and B.Sc. Principal—Jatischandra Mitra, M.A. 27 other Teachers.

BHOWANIPUR (CALCUTTA), *Asutosh College.* B.A. and B.Sc. Principal—Panchanan Sinha, M.A. 58 other Teachers.

BURDWAN, *Raj College.* B.A. Principal—C. C. Mitra, M.A., B.L. 20 other Teachers.

CALCUTTA, *All India Institute of Hygiene and Public Health* (Govt.). D.P.H. and D.Sc. in Public Health. Director (offg.) and Prof. of Vital Statistics and Epidemiol.—R. B. Lal, M.B., B.S., D.P.H., D.T.M. & H., D.B. Profs.: *Bio-Chem. and Nutrition*—..... *Entomol.*—C. Strickland, M.A., M.D., B.Chir. Camb. *Malariology and Rural Hyg.*—K. V. Krishnan, D.Sc., M.B., B.S., D.B., M.R.C.P. *Maternity and Child Welfare*—M. I. Neal Edwards, M.D., I.M.S. *Pathol., Bacteriol. and Helminthol.*—Capt. C. L. Pasricha, M.A., M.B., B.Chir. Camb., M.R.C.S., L.R.C.P., I.M.S. *Phys. and Chem.*—S. Ghosh, D.Sc. Edin., M.Sc. *Protozool.*—B. M. Dasgupta, L.N.P. (offg.). *Public Health Lab. Practice*—A. Sen, B.Sc., M.B., Ch.B., M.R.C.P. Edin., D.P.H. *Serology*—Major S. D. S. Greval, B.Sc., M.D., Ch.B., I.M.S. 11 Asst. Profs.

CALCUTTA, *Bangabasi College.* B.A. and B.Sc. Principal—P. K. Bose, B.A. Ox., B.L. 51 Teachers.

CALCUTTA (SIBPUR), *Bengal Engineering College* (Govt.). B.E. Principal—C. V. Miller, B.Sc. Lond., A.C.G.I. Profs.: *Chem.*—N. N. Sen, M.Sc., A.I.C., A.R.S.M. Lond. *Eng., Civil*—C. V. Miller, B.Sc. Lond., A.C.G.I. *Eng., Elect.*—M. Sengupta, B.Sc. Calc. and Glas. *Eng., Mech.*—A. M. Ahmed, B.Sc. Brist. *Maths.*—S. R. Sengupta, B.Sc., Ph.D. Glas. *Physics*—A. C. Chakrabarti, M.A. Camb., M.Sc. 27 other Teachers.

CALCUTTA, *Bethune College* (Girls) (Govt.). B.A. Principal—Mrs. Tatini Das, M.A. 17 Teachers.

CALCUTTA, *City College.* B.A. and B.Sc. Principal—S. C. Ray, M.A. 52 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.). B.T. Principal—A. K. Chanda, M.A. Ox. Profs.: G. C. Dasgupta, B.A., B.T.; A. R. Akhunji, M.Ed. Leeds; S. Chakrabarti, M.Sc., B.T. 1 other Teacher.

CALCUTTA, *Islamia College* (Govt.). B.A. Principal—K. Zachariah, M.A. Ox. 28 other Teachers.

CALCUTTA, *La Martiniere.* Interm. Principal—R. J. Fearn, B.Sc. Lond. 7 other Teachers.

CALCUTTA, *Loreto House* (Girls). B.A. Principal—Provincial of the Loreto nuns in India. 12 other Teachers.

CALCUTTA, *Medical College of Bengal.* M.B. Principal—Lt.-Col. T. C. Boyd, M.R.C.P., F.R.C.S.I., F.I.C., D.P.H., I.M.S. Profs.: *Anat.*—Rai Bahadur S. Singha, M.B., F.R.C.S.E. *Biol.*—S. Mukherjee, L.M.S. (offg.).

Chem.—Rai Bahadur K. N. Bagchi, B.Sc., M.B., D.T.M., F.I.C. *Hygiene*—Lt.-Col. A. C. Chatterji, M.B., D.P.H., I.M.S. *Med. Jurispr.*—Major D. Ahmad, O.B.E., L.M.S., A.I.R.O. *Med.*—Lt.-Col. E. H. V. Hodge, C.I.E., M.D., M.R.C.P. Lond., I.M.S. *Med., Clin.*—M. N. De, M.B., M.R.C.P. *Midwifery and Obstet., Clin. and Operative*—Lt.-Col. P. F. Gow, D.S.O., M.A., M.B., F.R.C.S.E., D.P.H., F.C.O.S., I.M.S.; M. N. Sarkar, B.A., M.B., F.R.C.S.E. *Ophthalmic Surg.*—Lt.-Col. E. W. O'G. Kirwan, C.I.E., M.Sc., M.B., F.R.C.S.I., I.M.S. *Pathol.*—D. P. Tribedi, M.B., Dip.B. Lond. *Pharmacol.*—Bt.-Col. R. N. Chopra, C.I.E., M.A., M.D., I.M.S. *Physics*—T. D. Kar, M.A. *Physiol.*—Capt. P. De, B.Sc., M.B., M.R.C.P.E. *Surg.*—Lt.-Col. F. J. Anderson, M.C., M.B., B.S. Lond., F.R.C.S., I.M.S. *Surg., Clin. and Operative*—D. C. Chakravarti, M.B.E., F.R.C.S.E. 17 other Teachers.

CALCUTTA, *Presidency College* (Govt.). B.A. and B.Sc. No. of undergraduates limited to 960. Principal—B. M. Sen, M.A. Camb., M.Sc. *Arabic, Persian and Urdu*—Profs.: M. M. Hugh, M.A.; M. Ahmed, M.A.; A. Khaleq, M.A. Lectrs.: H. M. Abdul Hafiz; T. Rezwi, M.A. *Botany*—Profs.: S. Banerjee, M.A., B.Sc., F.L.S.; G. Majumdar, M.Sc., B.L.; J. Sengupta, D.Sc. Heidelb., M.Sc.; 1 Demr., 1 Asst. *Chem.*—Profs.: P. Niyogi, M.A., Ph.D.; M. Qudrati Khuda, D.Sc. Lond., M.Sc., D.I.C.; A. Maitra, M.A.; 7 Demrs., 4 Assts. *English*—Profs.: P. Ghosh, M.A.; H. Banerjee, M.A. Ox. and Calc., B.Litt. Ox.; S. Maitra, M.A.; S. Sengupta, M.A., Ph.D.; T. Mukherjee, M.A.; T. Sen; D. K. Sanyal, M.A.; A. C. Chakrabarti, M.A. *Geol. and Geog.*—Profs.: J. A. Dunn; M. Chatterjee, Ph.D. Lond., B.Sc.; B. N. Maitra, M.Sc., B.L.; 1 Demr., 1 Asst. *Hist. and Geog.*—Profs.: D. Sen, M.A.; U. Goshal, M.A., Ph.D.; S. Sarkar, M.A. Calc. and Ox.; S. Majumdar, M.A., B.L. *Maths. and Astron.*—Profs.: N. Ghosh, M.A.; J. Ghosh, Ph.D. Edin., M.A.; K. Chakravarti, M.Sc. Lectrs.: B. Das, M.Sc.; G. Bhar, M.Sc.; 1 Asst. *Philos. and Logic*—Profs.: P. D. Shastri, M.A., M.O.L. Panj., B.Sc. Ox., Ph.D. Kiel.; N. Brahma, M.A., Ph.D.; M. Sarkar, M.A., Ph.D. *Physics*—Profs.: P. Mahalanobis, M.A. Camb., B.Sc.; S. Datta, D.Sc. Lond., M.Sc., D.I.C.; D. Majumdar, M.A., B.L. Lectr.: K. Kar, D.Sc.; 5 Demrs., 2 Assts. *Physiol.*—Profs.: N. Bhattacharyya, M.A., B.Sc.; N. Basu, M.Sc.; 2 Demrs., 1 Asst. *Polit. Econ. and Polit. Philos.*—Profs.: J. Sinha, M.A., Ph.D.; D. Chattoraj, M.A.; U. N. Ghoshal, B.Sc. Lond.; B. K. Chaudhuri, M.A. *Sanskrit, Pali, Bengali and Hindi.*—Profs.: R. Basak, Ph.D. Dac., M.A.; S. Bhaduri, M.A. (offg.). Lectrs.: S. Bhattacharyya, M.A., B.T.; S. S. Bagchi, M.A.; S. Lala (pt.-time in Hindi). *Physical Instr.*—S. Sen, M.A., B.L., B.T.

CALCUTTA, *Ripon College.* B.A., B.Sc., B.L.
Arts and Science Dept. Principal—R. Ghosh, M.A. 65 other Teachers.
Law Dept. Principal—S. C. Chaudhuri, M.A., LL.D. Camb. 10 other Teachers.

CALCUTTA, *St. Joseph's College.* Interm. Principal—Rev. Br. D. M. Lonergan. 5 other Teachers.

CALCUTTA, *St. Paul's Cathedral Mission College.* B.A. Principal—Rev. P. G. Bridge, D.D. 22 other Teachers.

CALCUTTA. *St. Xavier's College* (S.J.). B.A., B.Sc., B.T. Students of other religious persuasions are admitted. Rector—A. Verstraeten, S.J. 46 other Teachers.

CALCUTTA, *Sanskrit College* (Govt.). B.A. Principal—S. N. Dasgupta, Ph.D. Camb., M.A. 17 other Teachers.

CALCUTTA. *Scottish Church College.* B.A., B.Sc. and B.T. Formerly the General Assembly's Institn. and Duff Coll. Principal—Rev. A. Cameron, M.A., B.D. Profs.: *Bengali and Hindi*—S. Dasgupta, M.A.; S. Lala (Hindi). *Chem.*—R. Chatterjee, M.Sc.; W. C. Somerville, B.Sc., Ph.D. Edin. *English*—The Principal; A. Mowat, M.A.; S. C. Dutt, M.A., B.L.; B. B. Roy, M.A.; M. D. Gray, M.A.; W. Sutherland, M.A.; M. Bose, M.A; Dorothy J. Stewart, M.A.; P. Bose, M.A.; S. Mukherji, M.A. *History*—M. Sarkar, M.A.; A. Sen, M.A.; Rev. M. A. Simpson, M.A. *Maths.*—M. Sarkar, M.A.; B. Mandal, M.Sc.; N. Karfarma, M.A.; B. Mukherjee, M.A. *Philos. and Logic*—S. Biswas, M.A.; P. B. Chatterjee, M.A. *Physics*—N. Ray, M.A. *Polit. Philos. and Econ.*—J. Kellas, M.A.; N. C. Bhattacharyya, M.A., B.L.; L. A. Natesan, M.A. *Sansk.*—D. Bhattacharyya, M.A.; R. Battacharyya, M.A. *Teaching*—Miss W. Plumbe, B.A. Camb.; S. Biswas, M.A.; Miss P. Das, M.A.; Dorothy J. Stewart, M.A.; Miss L. Mallik, B.A., B.T. 18 other Teachers.

CALCUTTA, *Victoria Institution for girls.* B.A. Principal—Mrs. L. Banerjee. 15 other Teachers.

CALCUTTA, *Vidyasagar College.* B.A., B.Com., and B.Sc. Principal—B. C. Ghosh, M.A., M.B., B.Ch. Camb. 90 other Teachers.

CHANDARNAGORE, *College Dupleix.* Interm. Principal—D. N. Mukherjee, M.A. 10 other Teachers.

CHITTAGONG, *Chittagong College* (Govt.). B.A. and B.Sc. Principal—P. B. Rudra, M.A. 28 other Teachers.

COMILLA, *Victoria College.* B.A. Principal—R. G. Nath, M.A. 27 other Teachers.

CONTAI, *Prabhatkumar College.* Interm. Principal—Nepalchandra Ray, M.Sc. 4 other Teachers.

COOCH-BEHAR, *Victoria College.* B.A. and B.Sc. Principal—S. C. Gupta, M.A. 15 other Teachers.

DARJEELING, *St. Joseph's College.* Interm. Rector—Rev. A. Schockaert, S.J. 6 other Teachers.

DARJEELING, *St. Paul's College.* Interm. Rector—L. J. Goddard, M.A. Camb. 5 other Teachers.

DAULATPUR, *Hindu Academy.* B.A. and B.Sc. Principal—B. B. Bhattacharyya, M.A. 33 other Teachers.

FARIDPUR, *Rajendra College.* B.A. Principal—K. N. Mitra, M.A., B.L. 18 other Teachers.

FENI COLLEGE. B.A. Principal—A. C. Rakshit, M.A. 17 other Teachers.

GAUHATI, *Cotton College* (Govt.). M.A. in English (A Group); B.A. and B.Sc. Principal—Rai Bahadur B. C. Sengupta, M.A. 30 other Teachers.

GAUHATI, *Earle Law College* (Govt.). B.L. Principal—S. K. Dutt, B.A., B.Sc. Lond. 3 other Teachers.

HETAMPUR, *Krishnachandra College.* B.A. Principal—B. C. Sengupta, M.A., B.L. 8 other Teachers.

HOWRAH, *Narasinha Dutt College.* Interm. Principal—S. C. Mookerjee, M.A. 12 other Teachers.

HUGHLI MOHSIN COLLEGE (Govt.). B.A. and B.Sc. Principal—D. Ghosh, M.A., Dip.Ed. Ox. 21 other Teachers.

JORHAT COLLEGE. Interm. Principal—K. K. Handiqui, M.A. 8 other Teachers.

KALIMPONG, *Scottish Universities Mission College.* Interm. Principal—Rev. G. S. Mill, M.A., B.Sc. 6 other Teachers.

KARATIYA, *Saadat College.* Interm. Principal—Maulvi Ebrahim Khan, M.A., B.L. 7 other Teachers.

KRISHNAGAR COLLEGE (Govt.). B.A. and B.Sc. Principal—J. M. Sen, B.Sc., M.Ed. Leeds, F.N.I. 21 other Teachers.

KURSEONG, *St. Helen's College.* B.A. Principal—Rev. Sister Mary Dominic, F.C. 7 other Teachers.

KURSEONG, *Victoria College.* Interm. Principal—E. C. Hessing, M.A. 6 other Teachers.

MIDNAPUR, *Midnapur College.* B.Sc. Principal—B. D. Banerjee, M.A. 16 Teachers.

MYMENSING, *Anandamohan College.* B.A. Principal—K. Chakravarti, M.A. 30 Teachers.

NARAIL, *Victoria College.* Interm. Principal—Gopalchandra Maitra, M.A. 6 other Teachers.

PABNA, *Edward College.* B.Sc. Principal—Rai R. N. Bose, Bahadur, M.A. 14 other Teachers.

RAJSHAHI, *Rajshahi College* (Govt.). B.A. and B.Sc. Principal—S. K. Banerji, M.A., B.L., Ph.D. 43 other Teachers.

RANGPUR, *Carmichael College.* B.A. and B.Sc. Principal—D. N. Mallik, B.A. Camb., Sc.D. Dub., B.Sc. Lond. 30 other Teachers.

SERAMPUR COLLEGE. B.A. Principal—Rev. G. H. C. Angus, M.A., B.D. 19 other Teachers.

SHILLONG, *St. Edmund's College.* B.A. and B.T. Principal—Rev. Br. J. M. McGee. 17 other Teachers.

SHILLONG, *St. Anthony's College.* Interm. Principal—Rev. Fr. J. Ricaldone, S.C. 8 other Teachers.

SHILLONG, *St. Mary's College.* Interm. B.T., L.T. Principal—Rev. Mother M. Rodolphe, 7 other Teachers.

SILCHAR, *Gurucharan College.* Interm. Principal—A. K. Chanda, B.L. 13 other Teachers.

SONADA, *Salesian College.* Interm. Principal—V. Rev. Fr. A. Pianazzi, S.C., S.T.I. 7 other Teachers.

SYLHET (Habiganj), *Brindaban College.* Interm. Principal—D. D. Chaudhury, M.A. 7 other Teachers.

SYLHET, *Murarichand College* (Govt.). B.A. and B.Sc. Principal—Khan Bahadur A. A. Sayied, M.A. 30 other Teachers.

UTTARPARA COLLEGE. Interm. Principal—Dhrubakumar Pal, M.A., B.Sc. B.L. 9 other Teachers.

GENERAL INFORMATION

In July 1854 the Court of Directors of the East India Company sent a despatch to the Governor-General of India in Council directing the organisation of the Universities of Calcutta, Madras and Bombay. In pursuance

of that despatch the University of Calcutta was incorporated on January 24, 1857, for the purpose of "ascertaining, by means of examination, the persons who have acquired proficiency in different branches of Literature, Science and Art and rewarding them by Academical Degrees as evidence of their respective attainments and marks of honour proportioned thereunto." Modelled on the University of London, then a purely examining body, the functions of the University were limited to the conduct of examinations and the award of degrees. The jurisdiction of the University extended at first throughout practically the whole of northern India. But with the establishment of other Universities the territorial jurisdiction has been limited to the Provinces of Bengal and Assam (with the exception of a small area under the control of the University of Dacca). In 1864 an Act was passed by which the Universities of Calcutta, Madras, and Bombay were empowered to confer the honorary Degree of Doctor in the Faculty of Law.

In 1902, a Commission was appointed by Lord Curzon to examine the working of the Universities in India, and on their recommendation the Indian Universities Act of 1904 was passed which came into force on September 1, 1904. Under section 3 of Act VIII. of 1904, the University became empowered, among other things, to make provision for the instruction of students, to appoint University Professors and Lecturers, to hold and manage educational endowments, to erect, equip and maintain University libraries, laboratories and museums, and to make regulations relating to residence and conduct of students. Though the bulk of teaching continued to be imparted in the affiliated colleges, teaching in some of the higher branches began to be organised under University management. Assisted by grants from the Imperial Government and by private benefactions, it was possible for the University to arrange for Post-graduate teaching and research from 1909. The organisation of higher teaching and research was made by the Senate mainly on the initiative of the late Sir Asutosh Mookerjee, Vice-Chancellor from 1906–14 and again from 1921–23.

In 1917 a new scheme for Post-graduate teaching and research was brought into operation, providing for the centralisation of Post-graduate teaching in Calcutta within and under the control of the University. The departments of Post-graduate teaching in Arts and Science were placed under two Councils, with two Executive Committees, responsible directly to the Senate. The University now provides for Post-graduate teaching in: (1) English; (2) Sanskrit; (3) Pali; (4) Arabic; (5) Persian; (6) Indian Vernaculars, Bengali, Hindi, Urdu; (7) Comparative Philol.; (8) Mental and Moral Philos.; (9) History; (10) Polit. Econ. and Polit. Philos.; (11) Commerce; (12) Maths. (Pure and Applied); (13) Physics (Pure and Applied); (14) Chemistry (Pure and Applied); (15) Physiol.; (16) Botany; (17) Geol.; (18) Zool. and Comparative Anat.; (19) Experimental Psychol.; (20) Anthropol.

The Department of Post-graduate Teaching and Research in Arts is located in the Asutosh Building. Post-graduate Teaching and Research in the different branches of Scientific studies are carried on in the University College of Science at 92 Upper Circular Road, and 35 Ballygunge Circular Road, where opportunities for research have been provided by the establishment of extensive Laboratories and an up-to-date Workshop. This has been possible mainly through the generosity of the late Sir Taraknath Palit, D.L., the late Sir Rashbehary Ghose, C.S.I., M.A., D.L., Ph.D., and the late Raja of Khaira. The University maintains a staff of whole-time and part-time teachers.

Teachers' Training Department. On account of paucity of arrangements for the training of teachers for High Schools in Bengal, and particularly to meet the needs for specialized training in teaching subjects under

the revised Matriculation Regulations, the Univ. has opened a Teachers' Training Dept. under its own supervision. Arrangements have been made for the following courses for the present: (i) Teachers' Training Certificate Course (*General*), (ii) Teachers' Training Certificate Course (*Science*), (iii) Teachers' Training Certificate Course (*Geography*). Regular Examns. are held at the end of these courses and certificates are granted to successful candidates. The Dept. also organizes lectures by eminent educationists, of general and public interest on education and allied topics.

Government grants from 1912 to 1938 amounted to Rs. 94,54,220, including Rs. 9,70,835 for endowed chairs, and Rs. 15,30,024 for Hostels and a Students' Mess Scheme. During the same period private benefactions amounted to Rs. 68,83,887.

The Univ. buildings include a Senate House, the Durbhanga LIBRARY with Law College, Hostel, and Univ. offices, the Univ. Press, the Asutosh Building for post-graduate classes in Arts, post-graduate offices and the Univ. library, three buildings for the teaching of Post-graduate Science courses. LABORATORIES (in Univ. Coll. of Science): Phys. and Chem. (Pure and Applied), Applied Maths., Expl. Psych., Biol., etc. MUSEUMS: Asutosh Museum of Indian Arts and Museums attached to the Anthropological and Commercial sections of the Univ., a separate building is being constructed for the accommodation of the University Press.

FACULTIES. Arts, Law, Science, Medicine, Engineering.

DEGREES, ETC. B.A., M.A., Ph.D.; B.Sc., M.Sc., D.Sc.; B.E., D.Sc. (Engin.); B.Com.; B.T.; B.L., M.L., D.L.; M.B., M.D., M.S., M.O., D.Sc. (Public Health), D.P.H.; D.O.M.S. (Diploma in Ophthalmic Med. and Surg.; D.S.E. (Diploma in Spoken English).

SCHOLARSHIPS, ETC. (*a*) In India—Premchand Roychand, Rs. 2400 p.a., tenable for 2 yrs., awarded annually, 1 in Lit. and 1 in Science; Sreegopal Basu Mallik Fellowship, Rs. 4000, in Vedanta (compared with Western) Philosophy; Sir Praphullachandra Ray Fellowship, 2 at Rs. 200 p.m. each, for researches in Chemistry. Sir Jagadischandra Bose Fellowship, Rs. 150 p.m. for promotion of Physico-Biological Research. In addition, numerous other scholarships, medals and prizes are awarded both for research work and on the results of examn. (*d*) Abroad—Sir R. B. Ghose Travelling Fellowship, 3 of the value of Rs. 4400 each for Research or Investigation out of India for 1 yr.; Guruprasanna Ghose, 1 annually, tenable for 3 yrs. in Japan (Rs. 1000) or in Europe or America (Rs. 2000) by Bengali Hindus; Palit (Rs. 1,00,000) for Research or Investigation out of India for 1 yr.; Radhikamohan, 1 (Rs. 1,50,000) Endowment for advanced study abroad, tenable for 2 yrs. by Bengalee Brahmins; founded by Prof. H. C. Mookerjee—(i.) Lalchand Mookerjee Scholarships, Rs. 1,50,000 Endowment for Theoretical and Practical training abroad in Technical, Industrial and other allied subjects for Bengalee Protestant Christian students; (ii.) Sreemati Prasannamoyee Mookerjee Scholarships, Rs. 1,00,000 Endowment for training in Applied Commerce and Business Education—1 tenable abroad (Rs. 200 p.m.) and 1 within India (Rs. 50 p.m.) for Bengalee Protestant Christians; (iii.) Lalchand Mookerjee Indian Scholarships, Rs. 50,000 Endowment for training in Applied Commerce and Engin. for Bengali Protestant Christian students.

RESIDENCE. There are four classes of lodgings for students: (*a*) Collegiate Hostels; (*b*) Non-collegiate Hostels under external management; (*c*) Messes, attached or unattached; (*d*) Private Lodgings. Licences to Hostels under class (*a*) are granted by the Syndicate, while licences to the remaining three classes of lodgings are granted by the Students' Residence Committee—a

subordinate body under the Syndicate, consisting of six members appointed annually from among the Members of the Senate.

STUDENTS' WELFARE. Principals of Colls. and specialists in physical edn. deal with all matters relating to the health of students, including physical education and organization of games and other forms of recreation. There is a whole-time Univ. Organizer of Physical Education. A Students' Infirmary is maintained, free of cost, for students requiring hospital treatment. Glasses are supplied to students with defective vision at concession rates. Military Training is provided for a Univ. Corps recruited from affiliated colleges. All 1st yr. students in Calcutta Colls. are medically examined.

STUDENTS' INFORMATION BUREAU. The University has established a Bureau in Calcutta for the purpose: (*a*) of supplying students wishing to pursue their education abroad with all the information, advice, and assistance which they may require; (*b*) of supplying the foreign Univ. authorities with information regarding the students which will enable them to make their selections from the applications forwarded.

APPOINTMENTS AND INFORMATION BOARD. Scheme prepared by the Vice-Chancellor, Mr. Syamaprasad Mookerjee, for a partial solution of unemployment among Univ. graduates and undergraduates, with co-operation of business houses and different industrial concerns adopted by Senate on Jan. 23, 1937. Its object is to provide these young men with opportunities and facilities for practical training and ultimately for starting independent careers of their own, in the different branches of Trade, Industry and Commerce. Rs. 36,000 has been sanctioned by the Univ. for the purpose and an Appointments and Information Board has been established with a salaried Secretary who is in touch with the various industrial and commercial firms and maintains a Register of unemployed men with details of their qualifications and careers, seeking benefit under the scheme.

SPECIAL UNIVERSITY PROFESSORSHIPS AND LECTURESHIPS. Tagore Professorship in Law, Rs. 9000; S. N. Ghosh Lectureship in Comp. Religion, Rs. 9000; Kamala Lectureship in Indian Life and Thought, Rs. 2000 and a gold medal; also other lectureships.

SPECIAL LECTURES. With a view to promoting a desire for original investigation and research, eminent scholars from India and abroad are, from time to time, invited by the Univ. to deliver courses of lectures on subjects in which they have specialised. These lectures, after delivery, are printed and published by the Univ.

LIBRARIES. The University Library is under the management of the Library Executive Committee, subject to the general control of the Syndicate. It is for the use of Resident Fellows, Registered Graduates, Research Scholars, Readers, Professors, Lecturers and students of Post-graduate classes, and Teachers of the Undergraduate classes of this University. It contains over 2,06,000 vols., including pamphlets and periodicals, and a fairly large collection of Bengali and Tibetan MSS, and Rotograph copies of Persian and Arabic MSS. 593 books of the Sung Dynasty Tripitaka presented by the Consul-General for China.

Besides this Library, there are other Libraries attached to the Univ., viz. Law College Library and Libraries of the Departments of Science.

UNIVERSITY PRESS. The Univ. undertakes the publication of specialized lectures delivered by the Univ. Professors, Lecturers, and Readers, theses of successful candidates for degrees, scholarships and prizes and results of research

work carried out by Univ. Professors, Lecturers, and Research Assts., besides a number of periodicals, annuals, and serials.

PUBLICATIONS. *Calendar*, Rs. 7-8; *Univ. Regulations*, Rs. 4; *Convocation Addresses*, 1924–1932 and 1915–1923, each Rs. 5; *Calcutta Review*, monthly, annual subsn., Rs. 7-8 inland, 14 shillings foreign; *Journals* of Depts. of Letters, vols. i. to xxx., Rs. 6 each; *Journal* of the Dept. of Science, vols. i. to x., Rs. 4-8 per vol.; New Series, vol. i., Part I., Rs. 6 per vol., and Rs. 2 each part; Sir Asutosh Mookerjee Silver Jubilee volumes—vols. i., ii., and vol. iii. in 3 parts, Rs. 11-4 each; Bulletin of Math. Society, etc. Other publications (about 500 vols.) on Ancient Indian Culture, History, Philosophy, Law, Economics, Mathematics, Language and Science. A descriptive catalogue of University Publications may be had on application to the Registrar.

THE YEAR 1937–38

BENEFACTIONS. For Scholarships, medals, etc., Rs. 1,17,100. The amount includes Rs. 1,00,000 from Lady Abala Bose, wife of the late Sir Jagadischandra Bose, C.S.I., C.I.E., D.Sc., F.R.S., for promotion of Physico-Biological Research.

OTHER DEVELOPMENTS. Buildings are under construction for an Agric. Coll. at Barrackpore, under management of Univ. I.Sc. passed students are eligible for admission to the course. The Agric. course includes training in allied industries.

CHANGES IN REGULATIONS. Experimental Psychol. added to list of subjects for B.A., I.A. and I.Sc. Examns. Revised syllabus for Chem. for B.A., B.Sc. Hons.; Philos. for B.A.; Botany for B.A., B.Sc.; Experimental Psychol. for B.A., B.Sc.; and whole M.B. course.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES AS SPECIAL UNIVERSITY READERS AND EXTENSION LECTURERS. *Readers*: Prof. R. A. Fisher, D.Sc., F.R.S., on "Mathematical Statistics"; Prof. Syud Hassan, D.Litt., on "The European Crisis, The Far Eastern Crisis and America of To-day"; and F. W. Thomas, C.I.E., M.A., Ph.D., on "Some Stages in the Literature of India and Greater India." *Extension Lecturers*: Dr. Ernst Cohn-Wiener; Charles Samuel Myers, C.B.E., M.D., Sc.D., D.Sc., D.L., F.R.S.; Satischandra Bagchi, B.A., LL.B., LL.D.; Dr. Sudhindranath Ghosh; L. Dudley Stamp, D.Sc.; Prof. N. N. Godbole, M.A., B.Sc., Ph.D.; Prof. Maritz Bonn; K. K. Bhattacharyya, M.A., LL.M.

RESIGNATION. Prof. H. K. Sen (Applied Chem.), on appt. as Director of Indian Lac Research Institute.

DEATH. Prof. Jnanranhan Banerjea (Philos.).

HONORARY DEGREES. *LL.D.*—Sir James Hopwood Jeans, Prof. Francis William Aston, Prof. Ernest Barker, Prof. Arthur Henry Reginald Buller, Sir Arthur Stanley Eddington, Prof. Ronald Aylmer Fisher, Sir William Searle Holdsworth, Prof. Charles Gustave Jung, Prof. Charles Samuel Myers, Prof. Walther Straub. *D.Litt.*—S. P. Mookerjee, ex-Vice-Chancellor of the Univ.

STUDENTS. 2893 graduates; 32,995 undergraduates.

DEGREES. B.A., 2465; M.A., 371; B.Com., 187; B.L., 434; B.Sc., 671; M.Sc., 118; D.Sc., 2; B.T., 159; B.E., 48; M.B., 119; M.O., 1; Ph.D., 3; D.P.H., 24; D.S.E., 3.

UNIVERSITY OF DACCA

Founded 1921

Address—Ramna, Dacca, Bengal.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.
CHANCELLOR—H.E. THE GOVERNOR OF BENGAL
VICE-CHANCELLOR—R. C. MAJUMDAR, M.A., Ph.D. Calc.
TREASURER—KHAN BAHADUR MUHAMMAD YAHYA.
REGISTRAR—KHAN BAHADUR NAZIRUDDIN AHMAD, M.A.
LIBRARIAN—M. RAY, M.A., B.L.

TEACHING STAFF

Arabic and Islamic Studies

Hossain, S. M., M.A., D.Phil. Ox. Prof.
Taufiq, M. A., M.A., M.O.L. Panj. Temp. Reader.
Aziz, Md. A., M.A. Lectr.
2 Class II. Lectrs.

Bengali

Shahidullah, M., M.A. Calc., D. ès L. Paris Reader.
Majumdar, M. L., B.A. Calc. Lectr.
3 Class II. Lectrs.

Botany

1 Class II. Lectr.

Chemistry

Ghosh, J. C., D.Sc. Calc. Prof.
Chowdhury, J. K., M.Sc. Calc., Ph.D. Berl. (Analytical C.) Reader.
Guhasarkar, S. S., D.Sc. Lond. Reader.

Lecturers

De, R. L., M.Sc. Calc.
Purkayastha, R. M., M.Sc. Calc.
Basu, K. P., D.Phil. Munich, D.Sc. (Tempy.)
1 Class I. Lectr. (Colloid C.).
7 Class II. Lectrs., 1 Demr.

Commerce

Junnarkar, P. B., M.A., LL.B. Bom. (Acctcy. and Business Organizn.) Reader.*
Sen, B. B., M.A. Lectr.
2 Class II. Lectrs., 2 Pt.-time Lectrs.

Economics

Dey, H. L., M.A., D.Sc. Lond. Prof.
Ayyar, S. V., M.A. Madr. Lectr.
Shaha, K. B., M.A., Ph.D. Calc. Lectr.
Dam, M. L., M.A. Calc. Lectr.
3 Class II. Lectrs.

Education

Khan, Khan Bahadur A. R., M.A., B.T. Calc. Hon. Reader.*
9 Hon. Teachers.

English

Hasan, Khan Bahadur M., M.A. Calc. and Ox., D.Phil. Ox. Prof.
Roy, S. N., M.A. Calc., Ph.D. Lond. (on leave) Reader.
Guha, P. K., M.A., B.L. Calc. Reader (Offg.).

* Head of Department.

Lecturers
Ray, B. K., M.A., B.L. Calc., Ph.D.
Chanda, S. M., M.A. Calc., B.A. Ox.
Chaudhury, J. N., M.A. Calc.
Ganguli, S., M.A. (Tempy.)
4 Class II. Lectrs.

History [Prof.
Qanungo, K. R., M.A., Ph.D. Calc.
Husain, M., Dr.phil. Heidelb. Reader.
Ganguly, D. C., M.A., Ph.D. Lond. Reader.
Bhattacharyya, S. N., M.A., Ph.D. Calc. Lectr.
Sen, J., M.A. Lectr.
2 Class II. Lectrs.

Law
Dasgupta, J. N., M.A., D.L. Calc. Prof.
Duttagupta, A. K., M.A., B.L. Calc. Lectr.
Pal, N. C., M.A., B.L. Calc. Lectr.
4 Part-time Lectrs.

Mathematics
Basu, N. M., D.Sc. Calc. Prof.
Vijayaraghavan, T., D.Phil. Ox. Reader.
Ganguly, D. N., M.A. Calc. Lectr.
Sircar, H., D.Sc. Calc. Lectr.
Mitra, S. C., M.A., Ph.D. Calc. Lectr.
1 Class II. Lectr.

Persian and Urdu [Reader.*
Borrah, M. I., M.A., Ph.D. Lond.
Azad, S. M. Z. H., B.A. Panj. Lectr.
Shadani, W. H. A., M.A., M.O.L. Panj., Ph.D. Lond. Lectr.
1 Class II. Lectr.

Philosophy [Reader.*
Bhattacharyya, H., M.A. Calc.
Ahmed, M., Ph.D. Lond., M.A. Lectr.
Mukherji, K. C., M.A. Calc. Lectr.
1 Class II. Lectr.

Physics
Bose, S. N., M.Sc. Calc. Prof.
Khastgir, S. R., D.Sc. Calc. Reader.
Banerjee, K., D.Sc. Calc. Tempy. Reader.
Guha, B. C., M.Sc. Calc. Lectr.
3 Class II. Lectrs.

Physiology
1 Class II. Lectr.
1 Demr.
1 Pt.-time Lectr.

Political Science
Banerjee, D. N., M.A. Calc. Reader.*
Sen, A. K., M.A. Calc. Lectr.
2 Class II. Lectrs.

Sanskrit
De, S. K., M.A., B.L. Calc., D.Lit. Lond. Prof.
Lahiri, P. C., Ph.D. Lond., M.A. Lectr.
2 Class II. Lectrs.

* Head of Department.

ASSOCIATED COLLEGE. Teachers' (Govt.) Training College, Dacca. The Principal and teachers are recognized teachers of the Univ. and the College students read for the L.T. and B.T. in accordance with regns. prescribed on that behalf.

GENERAL INFORMATION

This Univ. was established in 1921 under an Act of 1920, which provides for the constitution of Faculties of Arts, Science, Law, Agriculture, and Medicine. Special attention is devoted to Islamic Studies and to the needs of the Musalman community, but the Univ. is open to all, without distinction of sex, race, creed, or class. It is a unitary and residential Univ., with a constitution resembling in many respects that of the modern English universities. The Authorities of

the Univ. include a Court, an Executive Council, an Academic Council, and Faculties; and the Teaching Staff has the main responsibility for all matters connected with teaching and examns. The students (other than those living under specially approved conditions) reside in Halls and Hostels, and the Univ. teachers in houses erected for them, in the Univ. domain. The domain consists of about a square mile of fine parkland, including over 100 acres of playing fields. It is adjacent to the Civil Station of Dacca and to a park called the Ramna, and lies from 1 to 1½ miles north-west from the centre of Dacca City. It is provided with electric light and power.

The chief buildings for teaching and administrative purposes include: Central buildings, containing about 200 rooms (area 94,000 sq. ft.), used for Class-rooms and Library; Chemical and Physical Laboratories (area 26,500 sq. ft.); the Curzon Hall (which accommodates about 2000 persons); the Dacca Hall residence for 160 students; the Jagannath Hall for 200 students; and the Salimullah Muslim Hall for 296 students.

LIBRARY, 76,761 vols., and about 20,418 MSS. in Sanskrit, Bengali, Urdu, Persian, and Arabic. Annual Library grant, Rs. 20,000. The University MSS. Committee (Bengali and Sanskrit Section) have already collected *c.* 20,487 valuable Sanskrit and Bengali MSS. The Arabic, Persian, Urdu, and Punthi MSS. Committee have collected 418 rare and valuable MSS.

LABORATORIES. Physical, with metal and wood workshops; Chemical, with special arrangements for training in commercial analytic methods; and Psychological.

FACULTIES. Arts, Science, Law.

ADMISSION. The standard required for admission to courses leading to degrees is that of the Intermediate examn. of an Indian Univ.

DEGREES, ETC. The duration of the courses of studies prescribed is as follows: for B.A. or B.Sc. ordinary, 2 yrs., with Honours, 3 yrs.; Diploma in Practical English, 1 yr.; M.A. or M.Sc., 2 yrs., or in the case of a Dacca Honours B.A. or B.Sc., 1 yr.; B.T. or L.T., 1 yr.; M.T., 3 yrs.; B.Com., 2 yrs.; B.L., 3 yrs. (All. M.A. and Dacca Honours B.A., 2 yrs.); M.L., 3 yrs. The Ph.D., D.Litt., D.Sc., or D.L. are open to graduates of 3 yrs.' standing, but graduates of other Univs. must pursue researches in this Univ. for 2 yrs.; published research work required.

SCHOLARSHIPS open to graduates: 3 of Rs. 40 each p.m., 2 of Rs. 30, 9 of Rs. 10 p.m., with exemption from tuition and examn. fees, of which one is for depressed classes only and one for women students only, 2 of Rs. 30 (for backward classes only), 1 of Rs. 30 for Muhammadans only, 2 of Rs. 25 (Muhammadans only). Law Scholarship of Rs. 25 (open to Law graduates). Research studentships: 1 of Rs. 75 p.m. and 11 of Rs. 50.

FEES. Tuition, per session; for B.A., B.Sc., or B.L. course, Rs. 96; for B.Sc. with Honours in Physics and Chemistry, Rs. 120; M.A., Rs. 120; M.Sc., Rs. 144; Diploma Course in Practical English, Rs. 60; Registration, R. 1; Admission, Rs. 5; Athletic, Rs. 5; Students' Union, Rs. 3.8; Research students, Rs. 10; Enrolment of Registered Graduates, Rs. 5; Enrolment of Registered Graduates for Life, Rs. 25. HOSTELS: Seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, medical attendance, medicine, and servants. Cost of food about Rs. 12 p.m.

TUTORIAL CLASSES have been organized for all the Depts. of Study. All the teachers of the Univ. are engaged in this work under the control of the Heads of the Depts. and the Provosts.

PUBLICATIONS. *Prospectus* (December); *Annual Report* (November); *Bulletins*; *Calendar*.

THE YEAR 1937–38

NEW DEPARTMENTS. Four new Depts. have been created; Bengali, Political Science, Soil Science and Physiology, the last two being temporarily included in Dept of Chem.

CHANGES IN REGULATIONS. Substitution of words "Modern Indian Language" for "Vernacular"; reintroduction of Prelim. M.A. Examn.; publication of names of successful candidates in order of merit in various Univ. examns.; institution of two instead of one Doctor's Degree in each of the Facs. of Arts and Science.

EXTRA-MURAL WORK. As in previous years, public lectures delivered by members of Univ. teaching staff.

RETIREMENTS. U. N. Gupta (Philos.), Sukumar Guha (Law).

DEATHS. Labanya Mohan Das (Physics), Jagat Bandhu Bakshi (Chem.).

STUDENTS. Full-time: 1369, including 395 graduates. Part-time: 239.

DEGREES. B.A. (Ord.), 130; B.A. (Hons.), 68; M.A., 59; B.Com., 17; B.L. (August 1937), 21; B.L. (January 1938), 14; B.Sc. (Ord.), 55; B.Sc. (Hons.), 20; M.Sc., 31; D.Sc., 3; B.T., 92.

UNIVERSITY OF DELHI

Founded 1922

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

PRO-CHANCELLOR—Hon. KANWAR SIR JAGDISH PRASAD, K.C.S.I., C.I.E., O.B.E., I.C.S.

VICE-CHANCELLOR—RAI BAHADUR RAM KISHORE, B.A., LL.B. Panj.

TREASURER—RAI BAHADUR S. N. MUKARJI, M.A. Panj., B.A. Camb.

REGISTRAR—RAI BAHADUR N. K. SEN, M.A. Calcutta.

APPOINTED (*) AND RECOGNIZED TEACHERS OF THE UNIVERSITY, for classes above Intermediate standard.

(S.), (H.), (R.), (A.), (C.), and (I.), denote St. Stephen's, Hindu, Ramjas, Anglo-Arabic, Commercial, and Indraprastha Girls' Colleges respectively.

Arabic, Persian, and Urdu

Rahman, A., Maulvi Fazil, Munshi Fazil Panj. (Hd. of Dept.) (S.).
Verma, A. N., M.A. Calc. (H.).
Ali, Syed Azhar, Ph.D. Camb., M.A., M.O.L., Munshi Fazil Panj. (S.).
Feroz, Bakht, M.A. Alig. (R.).
Jan, Sagheer Ahmad, M.A. All. (C.).
Kaushic, Asa Ram, M.A. Delhi & Agra. (R.).
Qureshi, Ishtiaq Husain, M.A. (on leave) (S.).
Musavi, Mansur Husain, M.A. All. (A.).
Sarup, Bhagwat, M.A., M.O.L., Munshi Fazil Panj. (H.).

Chemistry

Laroia, B. D., B.A. Ox., B.Sc. Panj., Ph.D. Lond.
Univ. Reader,* Head of Dept.

Economics

Nag, K. C., M.A. Calc., Hd. of Dept. (S.).
Ganguli, B. N., M.A., Ph.D. Calc. (H.).
Ghosh, A. B., M.A. (C.).
Narain, Radhka, M.A. (C.).
Mathur, Raj Narain, M.A. (H.).
Bagchi, R. N., M.A. Calc., Ph.D. Lond. (R.).
Mathur, B. D., M.A. (R.).
Zaidi, S. Shaukat Husain, M.A. (A.).
Bose, S. K., M.A. (S.).
Ramji, Lal, M.A. (R.).
Kausikutty, Miss C. K., M.A. Madr. (I.).
Qureshi, Mohd. Latif, M.A. (A.).

English and History

Young, C. B., M.A. Ox. (Hd. of Dept. of English) (S.).
Samad, A., M.A. Alig. (A.).
Bhattacharya, A., M.A. Ox. (H.).
Kursheed, S. A., M.A. (A.).
Dayal, S., M.A. Panj. (H.).
Walters, Rev. D. M. I., M.A. Camb. (S.).
Gupta, Miss K., M.A. (I.).
Spear, T. G. P., B.A., Ph.D. Camb. (Hd. of Dept. of Hist.) (on leave) (S.).
Close, H. M., B.A. Camb. (S.).
Eyre-Walker, C., M.A. Ox. (A.).
Lorimer, R. C., M.A. St. And. (A.).
Das, Ramsaran, M.A. (R.).
Rai, Ganpat, M.A. Panj. (H.).

Bhandari, D. R., B.A. Lond. (Actg. Hd. of Dept. of History) (R.).
Thadani, N. V., M.A. Bom. (H.).
Dutt, S., M.A., Ph.D. Calc. (R.).
Mookerjee, A. K., M.A. Calc., B.A. Ox. (H.).
Rajendranath, M.A. (C.).
Chopra, R. P., M.A. (R.).
Sharma, B. D., M.A. (R.).
Sen, S., M.A. Calc. (C.).
Chand, B., M.A., Panj., Ph.D. Lond. (H.).
Loukes, H., B.A. Ox. (S.).
Prahlad, Krishna, M.A. (C.).
Ali, Syed Azhar, Ph.D. Camb., M.A., M.O.L., Munshi Fazil Panj. (S.).
Qureshi, I. H., M.A. (on leave) (S.).
Bahadur, Umrao, Ph.D. Edin., M.A. (H.).
Gupta, R. R., M.A. (H.).
Abbasi, Ishtiaq Ali, M.A. Luck. (A.).
Zutshi, Miss J. K., M.A. Panj. (I.).
Pillai, Mrs. B. P., M.A. Madr. (I.).
Nagaich, N., M A. Agra (C.).
Poplai, S. L., M.A., B.A. Camb. (H.).
Das Gupta, S., B.A. Camb., M.A. (S.).
Mitra, B. N., M.A. (H.).
Nanda, S. C., M.A. Panj. (R.).
Sarkar, Miss R., M.A. (I.).
Mukhtar, A. A., M.A. Alig. (A.).

Law

Kishore, Rai Bahadur Ram, B.A., LL.B. Panj.
Hon Reader and Dean.
Bose, S. N., B.A., LL.B. Panj.
Hon Reader.
Chandra, Rai Bahadur H., M.A., LL.B. Hon. Reader.
Beharilal, R., B.A., LL.B.
Hon. Reader.
Shahani, M. S., M.A. Ox. Lectr.*
Swarup, B., B.A., LL.B. Panj.
Lectr.*
Hasan, Sarwar, M.A., LL.B. Camb.
Lectr.*

Mathematics

Banerji, A. T., M.A. Calc. (H.).
Mukerji, S. N., M.A. Panj., B.A. Camb. (Hd. of Dept.) (S.).
Ram, Behari, M.A. Panj., B.A. Camb., Ph.D. Dub. (S.).
Ram, Sri, M.A. Panj. (H.).
Shankar, Hari, M.A. (A.).
Seth, B. R., M.A., Ph.D. Lond., D.Sc. (H.).
Cockin, C. M., M.A. (S.).
Dassgupta, P., M.A. (R.).
Dasgupta, S. R., M.A , Ph D. Calc. (C.).
Mitra, J. N., M.A. (R.).
McAndrew, Mrs. D. M., M A. Lond. (S.).
Goswami, G., M.A. (I.).

Persian, v. Arabic

Philosophy

Sen, N. K., M.A. Calc.
Univ. Reader,* (Hd. of Dept.)
Bose, S. K., B.A. Camb., M.A. (R.).
Davenport, S. F., M.A. Camb. (S.).
Sen, Indra, M.A., Ph.D. (H.).
Begg, Mirza Muhd., M.A. (A.).
Banerji, N. V., M.A. Calc., Ph.D. Lond. (R.).
Saksena, Shri Krishna, M.A. (H.).
Prem, Chand, M.A. (H.).
Loomba, Ram Murti, M.A. Luck. (R.).
Dasgupta, Miss B., M.A. Calc. (L.).

Physics

Kothari, D. S., M.Sc. All., Ph.D. Camb.
Univ. Reader,* (Hd. of Dept.)

Sanskrit

Dhar, Lachhmi, M.M.Pt., M.A., M.O.L. Panj., Hd. of Dept. (S.).

Chaudhri, N. N., M.A. Panj. (R.).
Kaul, K. N., M.A., M.O.L. Panj. (H.).
Sharma, Ganga Ram, B.A. (R.).
Sharma, Har Dutt, M.A., Ph.D. (H.).
Deva, Rana, M.A. (I.).
Urdu, v. Arabic

GENERAL INFORMATION

The three constituent colleges, formerly affiliated to the Univ. of the Panjab, were united to form a teaching and residential Univ. (Govt. of India Act, No. VIII. of 1922), with effect from May 1, 1922. Subsequently four Intermediate Colleges, three for boys and one for girls, were recognized as Constituent Colleges of the Univ., namely: The Anglo-Arabic, Ramjas Intermediate, Commercial, and Indraprastha (girls'). The Anglo-Arabic Coll. was recognized in 1930, the Commercial Coll. in 1932 and the Indraprastha Girls' Coll. in 1937, for teaching up to the B.A. (Pass) degree in certain specified subjects. The authorities of the Univ. are a Court, an Executive Council, an Academic Council, and Faculties and Boards of Studies. The Univ. does not itself hold a Matricn. Examn. As a temporary measure, it admits students who have passed the matricn. examns. of other Indian Univs. and recognized Boards.

FACULTIES and Deans: Arts, Rai Bathadur N. K. Sen; Science, Dr. B. D. Laroia; Law, Rai Bahadur Ram Kishore.

DEGREES. B.A. (Pass), B.A. (Hons.), B.Sc. (Pass), 2 yrs. after Interm. Examn.; M.A., LL.B., 2 yrs. postgrad.; LL.M., open to Bachelors of Law of 3 yrs.' standing; LL.D., open to Masters of Law of 5 yrs.' standing.

AVERAGE HOSTEL EXPENSES, Rs. 20 p.m.

Most Colls. have suitable playing-fields and some have introduced compulsory physical training or games for undergraduate students.

PUBLICATIONS. *Calendar* (published annually), Rs. 3; *Courses of Reading*; *Question Papers*; *Annual Report and Annual Accounts*; *Minutes*; Convocation Addresses by Chancellor and Vice-Chancellor.

THE YEAR 1937–38

NEW DEVELOPMENTS. Indraprastha Girls' Coll. has acquired commodious and suitable building near Univ. Plans have been submitted to Govt. of India for separate building for Physics Lab. Buildings and equipment for immediate requirements, *i.e.*, up to B.Sc. Pass standard, will cost about Rs. 50,000, and provision has been made for extensions for postgraduate teaching.

Provision of Univ. playing-fields available for all Colls., appt. of Director of Physical Educ. and medical examn. of all College students under consideration.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. V. S. Ram (Lucknow), annual Sir Kikabhai Premchand Readership Lectures in Economics (State in relation to Labour in India).

DEATHS. Hirde Narain (Econ.); K. M. Sarkar (Hist.).

STUDENTS. Full-time: 2252, including 257 graduates.

DEGREES. B.A., 139; B.A. Hons., 35; M.A., 47; LL.B., 72; B.Sc., 49.

UNIVERSITY OF LUCKNOW

Founded 1921

CHANCELLOR—H.E. THE GOVERNOR OF THE UNITED PROVINCES OF AGRA AND OUDH.

VICE-CHANCELLOR—S. M. HABIBULLAH, O.B.E., B.A., M.L.A.

HON. TREASURER—B. N. VYAS, M.B.

REGISTRAR—R. R. KHANNA, M.Sc.

PROCTOR—J. A. STRANG, M.A., B.Sc.

HON. LIBRARIAN—RADHA KAMAL MUKERJEE, M.A., Ph.D.

TEACHING STAFF

KING GEORGE'S MEDICAL COLLEGE

Principal—W. BURRIDGE, M.A., D.M. Ox.

Anatomy

Siddiqi, M. A. H., B.Sc., M.S., D.L.O., F.R.C.S. Prof.
Mukerji, P. D., M.L.S. Calc. Lectr.
2 Demrs.

Forensic Medicine

Clyde, Lt.-Col. D., M.D. Glas., D.P.H. Eng., I.M.S. Reader.

Medicine

Sahai, H., M.B., B.S. Panj. Prof.
Misra, S. S., M.D. Luck., M.R.C.P. Lectr. and Regr.

Obstetrics and Gynæcology

Marchant, Miss G. H., M.B., B.S. Calc., M.D. Lausanne, F.R.C.S. Eng., D.O.M.S. Lond. Prof.
Siret, Miss A., M.B. Calc., L.M. Rot., D.G.M. Dub. Lectr.
Itty, Miss S., M.B., B.S. Lectr.

Ophthalmology

Misra, C. P., L.M.S. Panj. Prof.
Varma, Capt. R. S., M.B., B.S. Panj., F.R.C.S. Ed. Lectr.

Pathology

Hamid, M. A., M.B., B.S. All., M.D., M.R.C.P. Prof.
Mangalik, V. S., M.D., M.R.C.P. Reader.
Gupta, S. P., B.Sc., M.D., B.S. Lectr.
2 Demrs.

Pharmacology

Bhatia, B. B., M.D., B.S., M.R.C.P. Reader.
Sinha, K. N., M.B., B.S. Lectr.
1 Demr.

Physiology

Burridge, W., M.A., D.M., Ox. Prof.
Mathur, S. N., M.B., B.S. All., Ph.D. Lond. Lectr.
2 Demrs.

Public Health

Mathur, H. G. D., B.Sc., M.B., B.S. All., M.R.C.P. Edin., D.T.M. & H. Lond., D.P.H. J. Hop. Prof.

Radiology

Ragunandan Lal, Rai-Bahadur, M.B., B.S. Panj. Reader.

Surgery

Nigam, K. S., M.D. Alld., F.R.C.S. Ed., D.T.M. Lond. Prof.
Mathur, S. N., B.Sc., M.S., F.R.C.S. Reader.
Prasad, T., F.R.C.S. Edin., D.L.O. Eng., M.B., B.S. Lectr. and Regr.
Pramanick, R. D., B.Sc., M.B., B.S. Panj., D.A. Lectr.
Goil, R. B., B.Sc. Ben., D.D.S. Atl. (Dentistry) Lectr.

Canning College (Arts and Science)

Principal—S. B. Smith, M.A. Ox.

Arabic

Wahid Mirza, Mohd., M.A. Panj., Ph.D. Lond. Reader.
Aleem, Abdul, Ph.D. Berlin, B.A. Lectr.

Botany

Sahni, Birbal, M.A., Sc.D. Camb., D.Sc. Lond., F.R.S., F.G.S., F.A.S.B., Dean, Fac. of Sci. Prof.
Dasgupta, S. N., M.Sc. Calc., Ph.D. Lond. Reader.
Chowdhury, H. P., M.Sc. Panj., D.I.C. Lectr.
2 Demrs.

Chemistry

MacMahon, P. S., M.Sc. Manc., B.Sc. Ox., F.I.C. Prof.
Sane, S. M., B.A., B.Sc. All., M.A., Ph.D. Berlin. Reader.
Zaheer, S. H., B.A. Ox., Ph.D. Heid. Reader.
Raman Nayar, M., B.A. Madras, A.I.I.Sc. Bangalore Lectr.
Chatterji, A. C., D.Sc. All., Dr.Ing. Berlin Lectr.
5 Demrs.

Economics [Prof.

Mukerjee, R. K., M.A., Ph.D. Calc.
Mukherji, B. B., M.A., B.L. Calc. Reader.
Mukerji, D. P., M.A. Calc. Lectr.
Majumdar, D. N., M.A. Calc. Lectr.
Saksena, S. P., B.Com., M.A. Lectr.

English

Sidhanta, N. K., M.A. Camb. and Calc., Dean, Fac. of Arts, Prof.
Brander, L. R. M., M.A Edin. Reader.
Roy, F. T., M.A. All. and Ox. Lectr.
Sreshta, R. R., M.A., LL.B. Camb. Lectr.
Rao, A. V., M.A. Madr., Ph.D. Lond. Temp. Lectr.
Roy, C. G., M.A. All. Lectr.
Bhattacharya, A. T., M.A. Lectr.
Ahmad, Ali, M.A. Jr. Lectr.
Mitra, D., M.A. Jr. Lectr.
Rustogi, R. S., M.A. Jr. Lectr.

History, European

Smith, S. B., M.A. Ox. Prof.
Dasgupta, S. N., M.A. Lond. Lectr.

History, Indian

Mookerji, R. K., M.A., Ph.D. Calc. Prof.
Banerji, S. K., M.A., L.T. All., Ph.D. Lond. Reader.
Chatterji, C. D., M.A. Calc. Lectr.
Chatterji, N. L., M.A. All., Ph.D. Lectr.

Mathematics [Prof.

Strang, J. A., M.A., B.Sc. Edin.
Narayan, L., M.A., D.Sc. All. Reader.
Singh, A. N., M.Sc. All., D.Sc. Calc. Lectr.
Misra, Ramadhar, M.A. Lectr.

Modern European Languages

Iyer, K. A. S., M.A. Lond. (French) Lectr.
Chatterji, A. C., D.Sc. Alld., Dr. Ing. Berlin (German) Lectr.

Persian and Urdu

Rizavi, Syed M. H., M.A. Reader

Fani, Md. A. Q., M.A. All. Lectr.
Mosvi, Syed Y. H., M.A. Lectr.
Husain, Syed Mohd., Mulla Fazil, M.A., LL.B. All. (Urdu) Lectr.
Husain, S. E., M.A. All. (Urdu) Lectr.

Philosophy

Sen Gupta, N. N., M.A., Ph.D. Harv. Prof.
Shah, E. Ahmad, M.A., All. B.Litt. Ox. Reader.
Prasad, Kali, M.A., LL B. All. Lectr.

Physics

Mohammad, Wali, M.A. Panj. and Camb., Ph.D. Gött., I.E.S. Prof.
Deodhar, D. B., M.Sc. All., Ph.D. Lond., F.P.S., F.Inst.P. Lond. Reader.
Sharma, P. N., D.Sc. Lectr.
Mathur, K. N., D.Sc. All. Lectr.
2 Demrs.

Political Science

Ram, V. S., B.A. California, M.A., Ph.D. Harv. Reader.
Menon, V. K. N., Madr. and Ox. Lectr.
Muhar, P. S., M.A., Ph.D. Harv. Lectr.
Sharma, B. M., M.A. All., Ph.D. Lectr.
Sultan, Modh., M.A. Lectr.
Loomba, A. L., M.A. Jr. Lectr.
Narain, Miss P., M.A. Jr. Lectr.

Sanskrit and Hindi

Iyer, K. A. S., M.A. Lond. Reader.
Chandrapandey, Kanti, M.A., M.O.L. Panj., Ph.D. Lectr.
Thakur, A. D., Pt., M.A All. Lectr.
Gupta, D. D., M.A. All., LL.B. (Hindi) Lectr.
Barthwal, P. D., M.A., D.Litt. Ben. (Hindi) Lectr.

Zoology

Bahl, K. N., D.Phil. Ox., D.Sc. Panj. Prof.
Thapar, G. S., M.Sc. Panj., Ph.D. Lond. Reader.
Bhatia, M. L., M.Sc. Panj. Lectr.
Lal, M. B., D.Sc. Lectr.
2 Demrs.

Isabella Thoburn College (Women)

Principal—Miss Mary E. Shannon, M.A., LL.D.

Botany

Oldroyd, Miss R. H., M.A. Kansas State Teacher.

Chemistry

Wallace, Miss M., B.A. Minn., M.A. Columbia Reader.
Mukerjee, L. N., M.Sc. Teacher.

Economics and Sociology

Jordan, Mrs. E. L., M.A. Mich. Teacher.

English

Roy, Miss Nora, M.A. Reader.
Dimmitt, Miss M. A., M.A. Wellesley Teacher.
Dass, Mrs. P. N., B.A. Goucher Coll., M.A. All. Teacher

History, European [Teacher.

Johnson, Miss S., M.A. Columbia

History, Indian [Teacher.

Chakko, Miss S., M.A. Madr.

Persian

Rizavi, Syed M. H., M.A. Lectr.

Philosophy

Venkataratnam, Miss B., M.A. Mad. Reader.
Williams, Miss L. V., M.A. Teacher.

Political Science

Manchester, Miss R. C., M.A. Bryn Mawr, Ph.D. Reader.

Sanskrit		*Zoology*	
Srivastava, S. R., M.A. Agra, LL.B.	Alld. and Lectr.	Chandy, Miss Mary, M.Sc. Madr.	Teacher.

FACULTY OF COMMERCE

Chatterji, B. N., M.A., B.L. Calc.	(Economics) Dean and Reader.
Dasgupta, B. N., B.A. Calc., A.S.A.A.	(Commerce) Reader.
Gupta, O. P., B.A. Ben., B.Sc. Lond.	(Economics) Lectr.
Pant, D., B.Com. Bom., Ph.D. Dub.	(Commerce) Lectr.
Husain, S. A., Ph.D. Lond., B.Com.	(Commerce) Lectr.

FACULTY OF LAW

Gupta, S. K. D., M.A., LL.M. Camb., LL.D. Dub.	Dean and Reader	Hajela, K. S., M.A., M.Sc., LL.B. All., LL.M. Bom., F.R.A.S.	Reader.
Singh, R. U., LL.B. Alld., LL.D. Harv.	Reader.	Misra, K. P., M.A. Ox.	Reader.
Chak, J. N., B.A. Ox.	Reader.	Misra, L. S., M.A. Camb., LL.B. Camb. and Dub.	Reader.
		2 Part-time Lectrs.	

ORIENTAL DEPARTMENT

Maulvi Mustafa Hasan Alavi; Maulvi Ali Zainabi; Maulvi Syed Ali Naqi Naqvi; Pandit G. C. Avasthi; Pandit Ghootar Jha Shastri.

GENERAL INFORMATION

This residential and teaching Univ. was established under an Act of the Provincial Legislature passed in Nov. 1920. The authorities of the Univ. include a Court, Executive Council, Academic Council, Committee of Reference, and Faculties.

FACULTIES. Arts, Science, Medicine, Law, Commerce.

LIBRARY. 65,501 vols. (including K.G.M.C. and Bonarjee Library).

ADMISSION. Qualifications for Degree courses: Arts or Science—the Intermediate Examn. of an Indian Univ. or of the Board of High School and Intermediate Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or of the Board of Intermediate and Sec. Education, Dacca, and the Cambridge Higher School Certificate Examn.—Certificate "A"; Law—Degree in Arts or Science; Commerce—Commerce Diploma Certif. of the Panjab, or the Intermediate Examn. in Commerce of the Board of High School and Interm. Education, U.P., or of Rajputana (incl. Ajmeer-Merwara), Central India, and Gwalior, or the Interm. Examn. in Arts (Group B—Special) of the Delhi Univ. or Interm. Examn. in Group E of the Board of Interm. and Secondary Education, Dacca; the Interm. Examn. of Andhra Univ., in 3 Commercial subjects; Interm. or B.A. Examn. of any recognized Univ., with Economics; Part I. of the Associate Examn. of the Indian Institute of Bankers after passing Interm. Examn. Med.—Degree in Science of Agra or Aligarh, All., Benares, Bom., Calc., Dacca, Delhi, Mad., Mys., Nagpur, Panj., Patna, or Rangoon taken with Chem. and Biol. and optional subjects, or, subject to certain conditions, the Interm. Examn. of Alig., Benares, Interm. Board of Ed., U.P., or of Rajputana, Central India, and Gwalior.

DEGREES. B.A. Pass, 2 yrs.; B.A. Hons., 3 yrs.; M.A., 2 yrs. after B.A. (or after B.A. Hons., 1 yr.); Ph.D., after 2 yrs.' research; D.Litt., 5 yrs. after having taken Ph.D.; also Honorary. B.Sc. Pass, 2 yrs.; B.Sc. Hons., 3 yrs.; M.Sc., 2 yrs. (or after B.Sc. Hons., 1 yr.); Ph.D., after 2 yrs.' research; D.Sc., 5 yrs. after having taken Ph.D.; also Honorary. LL.B., 2 yrs. after B.A. or B.Sc. or other specified degree; LL.M., 2 yrs. after LL.B.; LL.D., 5 yrs. after LL.M. M.B., B.S., 5 yrs.; M.D., M.S., 3 yrs. after M.B., B.S; B.Com., 2 yrs. The lectures are supplemented by tutorial work.

DIPLOMAS AND CERTIFICATES. Diplomas are granted in Public Health, Teaching, Arabic, Persian, and Sanskrit. Certificates of Proficiency in French and German are also granted.

FEES for tuition for full course: B.A., Pass, or B.Com., Rs. 216; M.A., Rs. 270; M.B., B.S., Rs. 650; D.P.H., Rs. 340; B.Sc. Pass, Rs. 252; B.A. Honours, Rs. 324; B.Sc. Honours, Rs. 378; M.Sc., Rs. 150 (for 1 yr.'s course) or Rs. 300 (for 2 yrs.' course); LL.B., Rs. 290; D.Sc., Rs. 675; Ph.D., Rs. 300.

RESIDENCE. Students are required, unless specially exempted, to live in hostels, King George's Medical Coll. and Canning Coll. for men; Isabella Thoburn Coll. for women. There is also a Univ. Hostel for women students attached to Canning Coll.

ADULT EDUCATION. A system of public lectures by members of the staff and others is in force.

FINANCE. The University received a grant of Rs. 12,37,397 from the Provincial revenues, including grants for the King George's Hospital and the Queen Mary's Hospital maintained in connexion with the King George's Medical College. The other income of the University consists of interest on endowments and subscriptions, plus fees. The total income of the University was Rs. 17,95,027.

PUBLICATIONS. *Calendar*; *Prospectus*; *Annual Report*; *Quinquennial Report of Research Work*.

THE YEAR 1937–38

BENEFACTIONS. Raja Sir Mohammad Ejaz Rasul Khan of Jehangirabad, Maharaja Bahadur Pateshuri Prasad Singh of Balrampur, Khan Bahadur Raja Mohammad Amir Ahmad Khan of Mahmudabad, V. N. Vidyant, Ganesh Prasad, each Rs. 1000, to endow gold medals; R. S. Brij Ballabh Kishore Sadiq Muradabadi of Fyzabad, Rs. 550, to institute cup for sports; Pt. Rameshwar Nath Gurtu, 18 Sanskrit Manuscripts, Dr. R. P. Paranjpye, Rs. 86 for books and medals for Maths. Dept.

NEW BUILDINGS. Univ. Library building under construction, estimated cost Rs. 1½ lacs; Students' Union building under construction, estimated cost Rs. 30,000.

CHANGES IN REGULATIONS. Lucknow Univ. Act amended consequent upon New Govt. of India Act, 1935, coming into force. Two research degrees, namely, Ph.D. and D.Litt. instead of Ph.D., and Ph.D. and D.Sc. instead of D.Sc., instituted in Fac. of Arts and Sci. respectively. Subject to discretion of Dean fresh attendance at lectures not required from candidates who fail at LL.B. previous Examn. Application of grace mark rules extended to examns. of the Fac. of Law. Statutes amended to include Principals, Canning College and Isabella Thoburn College, among list of officers of Univ.

EXTRA-MURAL WORK. Extension lectures delivered by members of staff. Rehabilitation of Univ. nightschool, noteworthy feature of year.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Dr. Hadi Hasan (Aligarh Muslim), "Arabic Contributions to Learning and Culture"; Prof. N. G. Shabde (Nagpur), "The General Field Theory of Schouten and Van Dantzig"; Dr. Hermann Guetz, "Life and Art in Mughal India"; Sir John Russell, "Early Botanical Investigations as applied in Agriculture."

VISITS OF TEACHERS TO OTHER UNIVERSITIES. Dr. B. Sahni, Sukhraj Roy Readership Lectures in Natural Science, at Patna Univ. Dr. V. S. Ram, Sir Kikubhai Readership lectures, at Delhi Univ. Dr. Radha Kamal Mukerjee lectured at Oxford, Cambridge and Liverpool Univs. and State Depts. of U.S.A., France, Germany, and other European countries; presided over second day's session of International Congress of Sociology and of Population. Dr. Wali Mohammad presided at All-India Literary Conference.

RESIGNATIONS. Lieut.-Col. H. Stott (Path.), on appt. as Inspector-General of Civil Hospitals, Bihar. Dr. E. Asirvadam (Polit. Sci.), on appt. as Head of Dept. of Political Admin. in Madras Univ.

DEATHS. Raja Sir Rampal Singh of Kurri Sidhauli, great benefactor and member of Executive Council and Court; Dr. B. G. S. Acharya (Opthal.); R. B. Dr. K. L. Chaudhri, R. S. Ram Prasad and Chaudhri Nabi Jan, members of Court.

STUDENTS. 2008, including 850 graduates.

DEGREES (1938). B.A., 261; B.A. (Hons.), 37; M.A., 120; LL.B., 132; B.Sc., 82; B.Sc. (Hons.), 4; M.Sc., 40; D.Sc., 2; M.B., B.S., 21; B.Com., 35. Dipls. in Teaching 10, Arabic 15, Persian 28, Sanskrit 10. Certifs. in French 7, German 5.

UNIVERSITY OF MADRAS

Founded 1857

Address—Senate House, Triplicane P.O., Madras.

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS.

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION.

VICE-CHANCELLOR—DIWAN BAHADUR S. E. RUNGANADHAN, M.A., M.L.C.

REGISTRAR—WILLIAM MCLEAN, M.B.E., M.A., B.L. Glas., Chartered Secretary, J.P.

LIBRARIAN—RAO SAHIB S. R. RANGANATHAN, M.A., L.T., F.L.A.

TEACHING STAFF

Biochemistry

Damodaran, M., M.A., D.Sc. Lond. D.I.C. Prof.

Botany

Parthasarathi Ayyangar, M. O., M.A., Ph.D. Lond. Prof.

Geography

Kuriyan, G., B.Sc. Lond., B.A. Lectr.

Indian Economics

Thomas, P. J., M.A., B.Litt. Ox., Ph.D. Lond. Prof.

Lokanathan, P. S., M.A., D.Sc. (Econ.) Lond. Reader.

Ramakrishnan, K. C., M.A., Dip. Econ. Lectr.

Indian History and Archæology

Nilakantasastri, K. A., M.A. Prof.

Venkataramanayya, N., M.A., Ph.D. Reader.

Dikshitar, V. R. R., M.A., Dip. Econ. Lectr.

Indian Music [Lectr.

Sambamurti, P., B.A., B.L.

Indian Philosophy

Suryanarayanasastri, S. S., M.A., B.Sc. Ox. Reader.

Mathematics

Vaidyanathaswami, R., M.A., D.Sc. Lond., Ph.D. Edin. Reader.

Politics and Public Administration

Asirvadam, E., B.D. Hartf., Ph.D. Edin., B.A. Reader.

Statistics

Sundararamasastri, N., M.A., M.Sc. Lectr.

Zoology

Gopalayyar, R., M.A., M.Sc. Liv., L.T. Prof.

ORIENTAL RESEARCH INSTITUTE

(3 Sections—*Sanskritic, Dravidian and Islamic*).

Sanskrit [Reader.

Raja, C. K., B.A., D.Phil. Ox.

Chintamani, T. R., M.A., Ph.D. Senr. Lectr.

Sastri, S. K. R. Junr. Lectr.

Tamil

Vaiyapuripillai, Rao Sahib S., B.A., B.L. Reader.

Sethupillai, R. P., B.A., B.L. Senr. Lectr.

Reddiyar, V.V., Vidvan Junr. Lectr.

Telugu [Senr. Lectr.
Ramakrishnayya, K., M.A.
Lakshmipatisastri, S. Junr. Lectr.

Malayalam
Menon, C. A., B.A. Senr. Lectr.
Nayar, P. K. Junr. Lectr.

Kanarese
Chennakesavaayyengar, H., M.O.L. Senr. Lectr.
Seshaayyangar, H., Vidvan Junr. Lectr.

Arabic, Persian, and Urdu
Nainar, Md. H., M.A. Aligarh, LL.B. (Arabic) Senr. Lectr.

Junr. Lecturers
Eushaw, Syed, B.A. (Persian).
Siddiqi, Md. H. M. (Urdu).

CONSTITUENT HONOURS COLLEGES

MADRAS, *Loyola College.* (Recognized in Hons. Courses in Econ., Maths.). Principal—Rev. L. D. Murphy, S.J., M.A. Ox. Profs. and Lecturers: *Chem.*—P. C. Ramachandraayyar, M.A.; R. Vuaraghava Sarma, B.A.; S. Lakshurinarasimhan, B.A. *Econ. and Hist.*—Rev. F. Basenach, S.J., B.Sc. Lond.; T. S. Subrahmanyayyar, M.A.; A. Appadurai, M.A., Ph.D.; L. N. Govindarajan, M.A.; L. M. Aloysius, B.A. *English*—Rev. C. Leigh, S.J.; Rev. L. D. Murphy, S.J., M.A. Ox.; N. Balakrishnan, M.A.; K. Subrahmanyam, M.A.; A. L. Krishnan, M.A. *French*—Rev. A. Saulière; Rev. F. Fargier, S.J. *Maths.*—Rev. L. Vion, S.J., L. ès Sc. Paris; N. S. Ayyar, M.A.; K. S. A. Ayyar, M.A.; T. R. Raghava Sastri, M.A.; S. N. Ayyar, B.A. *Sanskrit*—A. S Krishna Rao, M.A. *Physics*—V. Somasundaram, M.A.; P. R. Pisharoti, M.A. 29 other Teachers.

MADRAS, *Pachaiyappa's College.* (Recognized in Hons. Courses in Econ., Hist., Philos.). Principal—Rao Sahib D. S. Sarma, M.A., L.T. Profs.: *Chem.*—K. Suryanarayana, B.A. *Econ.*—E. S. A. Ayyar, M.A.; C. D. Rajeswaran. *English*—Rao Sahib D. S. Sarma, M.A., L.T.; R. Krishnamurti, M.A.; V. Tiruvenkataswami, M.A.; P. Mahadavan, M.A. *Hist.*—T. R. S. Ayyangar, M.A.; T. K. Venkataraman, M.A. *Indian Langs.: Tamil*—M. K. Mudaliyar, B.A. *Telugu*—M. Ramanuja Rao Naidu, M.A. *Sanskrit*—A. S. Mudaliyar, M.A. *Maths.*—K. Sriramalu, M.A. *Philos.*—T. M. P. Mahadeyan, M.A., Ph.D.; K. Muniswami, M.A.; T. C. Muniratnam, M.A. *Physics*—K. A. Naidu, B.A., B.L., L.T.; R. N. Selvam, M.A. 24 other Teachers.

MADRAS, *Presidency College.* (Recognized in Hons. Courses in Bot., Chem., Econ., English Lang. and Lit., Geol., Hist., Maths., Philos., Physics, Sanskrit Lang. and Lit., Zool.) Principal—H. C. Papworth, M.A. (seconded), B. B. Dey, D.Sc. Lond. (offg.). Profs.: *Bot.*—T. Ekambaram, Ph.D. Lond., M.A., L.T. *Chem.*—B. B. Dey, M.Sc. Calc., D.Sc. Lond.; P. A. Narayanaayyar, M.A., L.T. *Econ.*—P. P. Kallukaran, M.A., B.Sc., Ph.D. Lond. *English*—V. K. A. Pillai, B.A. Ox., M.A.; K. Swaminathan, B.A. Ox., M.A.; M. Suryanarayana, M.A., L.T. *Geol.*—C. K. K. Pillai, M.Sc. Lond., M.A., L.T., D.I.C. *Hist.*—J. Franco, M.A., L.T.; S. V. Venkateswarayyar, M.A., L.T. *Maths.*—K. A. Rao, B.A. Camb., M.A.; G. A. Srinivasan, M.A., L.T. *Physics*—P. S. Subrahmanyayyar, M.A., L.T.; G. P. Krishnamurti, M.A., L.T. *Sanskrit*—P. P. S. Sastri, B.A. Ox., M.A. *Zool.*—S. G. Manavalaramanujam, Ph.D. Lond, M.A., D.I.C.; A. R. Pillai, M.A., L.T. 30 other Teachers.

AFFILIATED HONOURS COLLEGES

HYDERABAD, *Nizam College.* (Affiliated in Hons. Courses in Econ. and Hist.). Principal—W. Turner, M.A. Edin. (seconded), Quadir Husain Khan,

M.A. (offg.). Profs.: *Arabic*—Zahid Ali, D.Phil. Ox., B.A. *Chem.*—Kazi Syed Moinuddin, M.Sc., Ph.D. Lond.; P. Ram Rao, M.A. *Econ.*—Q. Hussain, M.A. *Engl.*—Fazle Huq, B.A. Camb. *Hist.*—S. H. Rao, M.A., L.T. *Maths.*—R. Krishnamurti, M.A. *Persian*—Ghulam Dastagir Rashead, M.A. *Physics.*—J. C. K. Rao, D.Sc. Calc.; Syed Muhd. Ali Khan, B.A., B.Sc., A.R.C.S. Lond. 17 other Teachers.

TAMBARAM, *Christian College.* (Recognized in Hons. Courses in English Lang. and Lit., Hist. and Econ., Maths., Philos., Physics and Zool.). Principal—Rev. A. J. Boyd, M.A. Vice-Principal—Rev. J. R. Macphail, M.A. Glas. Bursar—E. J. Bingle, M.A. Ox. Profs.: *Bot.*—M. S. Sabhesan, M.A. *Chem.*—E. Barnes, B.Sc. Lond. *English Lang. and Lit.*—Rev. A. J. Boyd, M.A.; Rev. G. Matthews, M.A. Ox., B.Litt.; Rev. J. R. Macphail, M.A. Glas.; G. C. Martin, M.A. Edin; Rev. R. S. Macnicol, M.A. St. And. *Hist.*—E. J. Bingle, M.A. Ox.; S. S. Ayyar, M.A. *Maths.*—W. F. Kibble, B.A. Camb.; M. M. Thomas, M.A.; L. N. S. Ayyar, M.A. *Philos.*—J. F. Butler, M.A., Ph.D.; S. Samuel, M.A.; S. Parthasarathi, M.A. *Physics*—A. V. Moses, Ph.D. Liv., M.A.; Rev. T. G. Platten, M.A. Camb. *Zool.*—C. Lakshminarayanan, M.A. 42 other Teachers.

TRICHINOPOLY, *St. Joseph's College.* (Affiliated in Hons. Courses in Econ., Hist., Maths., Physics.) Principal—Rev. J. D'Souza, S.J., B.A. Profs.: *Botany*—Rev. A. Rapinat, S.J. *Chem.*—Rev. A. Haas, S.J. *English*—Rev. J. D'Souza, S.J., B.A. K. Chinnaswamiayyar, M.A. *French*—Rev. J. Bourdot, S.J. *Hist. and Econ.*—Rev. P. Carty, S.J., B.Sc. Lond.; Rev. A. Steenkiste, S.J. *Logic*—Rev. V. Allard, S.J. *Maths.*—Rev. C. Pruvot, S.J. *Physics*—P. E. S. Ayyar, M.A. 44 other Teachers.

TRIVANDRUM, *Maharaja's College of Arts.* (Affiliated* in Hons. Courses in English Lang. and Lit., Hist. and Malayalam). Principal—P. G. S. Ayyar, M.A. Profs.: *English*—The Principal; E. T. Thomas, M.A., L.T., A. S. Ayyar, M.A., Ph.D. Lond. *Hist.* and *Econ.*—Miss L. C. M. Ouwerkerk, B.A. Camb.; T. M. Krishnamachari, M.A., B.L.; N. S. Narasimhaayyangar, M.A., B.L. *Oriental Langs.*, Malayalam and Sanskrit—K. Goda Varma, B.A., Ph.D.; N. K. Pillai, M.A. *Philos.*—P. Narasimhayya, M.A., Ph.D. 23 other Teachers.

TRIVANDRUM, *Maharaja's College of Science.* (Affiliated* in Hons. Courses in Maths.). Principal—R. Srinivasan, M.A. Profs.: *Botany*—T. K. Koshy, M.A., Ph.D. Lond. *Chem.*—K. R. Krishnaayyar, M.A. *English*—G. G. Ayyar, M.A. *Maths.*—R. Srinivasan, M.A.; H. Subrahmanyan, M.A., Ph.D. *Physics*—V. S. Ayyar, M.A. *Zool.*—K. S. P. Ayyar, M.A., L.T., D.Sc.; J. E. Chelladurai, M.A. 30 other Teachers.

CONSTITUENT FIRST GRADE COLLEGES

MADRAS, *Government Muhammedan College.* Principal—Muhd. Abdul Hamid, M.B.E., M.A. Ox. 3 Profs., 14 other Teachers.

MADRAS, *Queen Mary's College for Women.* Principal—Miss K. Myers, M.A. 8 Profs., 20 other Teachers.

MADRAS, *Women's Christian College.* Principal—Miss E. H. Rivett, M.A. 6 Profs., 19 other Teachers.

* Affiliated until 1940 for Final Year Honours courses only.

AFFILIATED FIRST GRADE COLLEGES

ANANTAPUR, *Ceded District College.* Principal—C. D. S. Chetti, M.A., L.T. (Acting). 23 other Teachers.

BANGALORE, *St. Joseph's College.* Principal—Rev. A. Ambruzzi, S.J., M.A. Camb., D.D. 29 other Teachers.

ERNAKULAM, *Maharaja's College.* Principal—H. R. Mills, M.Sc. Lond. 42 other Teachers.

ERNAKULAM, *St. Teresa's College.* Principal—Sister Antoinette, M.A., L.T. 13 other Teachers.

KUMBAKONAM, *Government College.* Principal—C. N. Ganapatiayyar, M.A., L.T. 16 other Teachers.

MADANAPALLE, *Theosophical College.* Principal—P. N. Chari, M.A., L.T. (Actg.). 16 other Teachers.

MADURA, *American College.* Principal—E. M. Flint, M.A., B.Sc. 40 other Teachers.

MANGALORE, *St. Agnes College.* Principal—Sister M. Theodosia, A.C., B.A. 13 other Teachers.

MANGALORE, *St. Aloysius' College.* Principal—Rev. T. Gonsalves, S.J., B.A., D.D. 33 other Teachers.

PALAMCOTTAH, *St. Xavier's College.* Principal—Rev. A. Bonhoure, S.J., Ph.D. Greg. 26 other Teachers.

PALGHAT, *Government Victoria College.* Principal—S. R. U. Savoor, B.A., D.Sc. Lond. 15 other Teachers.

TINNEVELLY, *Hindu College.* Principal—Alex. Gnanamuttu, M.A. 16 other Teachers.

TRICHINOPOLY, *Holy Cross College.* Principal—Sister Sophie, B.C. 16 other Teachers.

TRICHINOPOLY, *National College.* Principal—V. S. Ayyangar, M.A. 19 other Teachers.

TRICHUR, *St. Thomas' College.* Principal—Rev. J. Palocaren, M.A. Edin. 24 other Teachers.

AFFILIATED SECOND GRADE COLLEGES

BANGALORE, *Sacred Heart College.* Principal—Sister M. Emmanuel, B.A. 4 other Teachers.

CALICUT, *Malabar Christian College.* Principal—Rev. Th. Lorch, Dr. rer. pol. Tübingen. 11 other Teachers.

CALICUT, *Zamorin's College.* Principal—A. V. K. K. Menon, M.A., B.L., L.T. 12 other Teachers.

COIMBATORE, *Government College.* Principal—A. V. Venkataramaayyar M.A., L.T. 11 other Teachers.

MADURA, *Madura College.* Principal—V. R. Venkataraman, M.A. 18 other Teachers.

MANGALORE, *Government College.* Principal—K. S. N. Nair, M.A. Ox. 12 other Teachers.

PALAMCOTTAH, *St. John's College.* Principal—Rev. G. T. Selwyn, M.A. 8 other Teachers.

PALAMCOTTAH, *Sarah Tucker College.* Principal—Miss N. M. Hewitt, B.A. Lond. 6 other Teachers.

PUDOKOTTAI, *Maharaja's College.* Principal—Rao Sahib N. T. Ayyar, M.A., L.T. 12 other Teachers.

SALEM, *Salem College.* Principal—A. R. Goundar, M.A., L.T. 8 other Teachers.

TELLICHERRY, *Government Brennen College.* Principal—T. M. K. Nedungadi, M.A., L.T. 11 other Teachers.

VANIYAMBADI, *Islamiah College.* Principal—Ahmed Ali, M.A., L.T. 7 other Teachers.

VELLORE, *Elizabeth R. Voorhees College.* Principal—V. P. Adiseshiah, M.A., L.T. (Acting). 14 other Teachers.

CONSTITUENT PROFESSIONAL COLLEGES

Engineering

GUINDY, *College of Engineering.* Principal—K. C. Chakko, B.A., D.Sc. Lond., M.I.E. Ind. Profs.: *Civil Eng.*—K. S. Sitaraman, B.A., B.E.; V. H. Sadarangini, B.E., B.Sc. *Electr. Eng.*—J. J. Rudra, M.A., Ph.D., A.I.I.Sc.; P. Subbarao, B.A. *Maths.*—P. P. Sankaran Nambiar, M.A., L.T. *Mech. Eng.*—A. Viswanatha, M.Sc. Lond., A.C.G.I., D.I.C.; S. Paul, B.E. 36 other Assts. (Instructors, Workshop Assts.).

Law

MADRAS, *Law College.* Principal—K. Krishna Menon, M.A. Ox., LL.B. Lond., B.C.L. Vice-Principal: S. Govindarajulu, B.A. Camb., B.L., LL.B. Camb. Prof.; K. V. V. Ayyar, B.A., M.L. Other Lectrs.: T. S. V. Ayyar, M.A., M.L.; B. Lakkapparai, B.A., B.L.; Hamid Ali, M.A., D.C.L.; G. R. Rao, B.A., B.L.; S. Venkataramaayyar, B.A., M.L.; S. V. Venugopalachari, B.A., B.L.

Medicine

MADRAS, *Medical College.* Principal—Lt.-Col. C. M. Plumptre, I.M.S., M.R.C.S., L.R.C.P., F.R.C.S. Edin. Profs. and Teachers: *Anæsthesia*—P. V. Francis. *Anat.*—P. K. Koshy, B.A., M.B., B.S., F.R.C.P. *Bact.*—Rao Bahadur S. Ramakrishnan, L.M.S., L.R.C.P.S., D.T.M. & H. *Biochem.*—A. S. Mannadinayar, M.B., M.S., Ph.D. *Biol.*—P. J. Sundarrao, M.A. *Chem.*—S. R. Nayudu, B.A., M.B., B.S., M.Sc. Lond., D.I.C., F.I.C. *Dent. Surg.*—J. B. Chenoy, L.D.S., R.C.S. *Dermatol.*—S. Thambayya, B.A., L.M.E.S., L.R.C.S., M.R.C.P., D.T.M. & H. *Ear, Nose, and Throat*—P. V. Cherian, M.B., B.S., F.R.F.P.S. Glas., F.R.C.S., D.L.O. *Hyg.*—R. Adiseshan, L.R.C.P.S., L.R.F.P. & S., D.P.H. *Infec. Dis.*—Abdul Hadi, M.B., BS. *Med. Jurisp.*—A. S. Naidu, B.A., M.D., B.S.Sc. *Med.*—Lt.-Col. G. R. McRobert, M.D. Aberd., D.T.M. & H., I.M.S.; Capt. R. Havilland Minchin, M.D. Edin., I.M.S.; G. R. Dinker Rau, B.A., M.D. *Mental Dis.*—S. Venkatasubbarao, M.D., D.P.M. (Eng.). *Obst., Gynæc., and Dis. of Children*—

Lt.-Col. C. M. Plumptre, I.M.S.; Rao Bahadur A. L. Mudaliyer, B.A., M.D., F.C.O.G. *Ophthalmol.*—K. K. Nayar. *Pathol.*—A. Vasudevan, M.B., B.S. *Pharmacol.*—J. C. David, Ph.D. Edin., M.B., B.S. *Physics*—C. V. Ayyar, M.A., L.T. *Physiol.*—B. T. Krishnan, B.A., M.B., B.S., M.Sc. *Radiol.*—M. J. S. Pillai, L.M.S., L.R.C.P., L.R.F.P. & S., D.M.R.E.; C. Totadri. *Surg.*—Lt.-Col. M. M. Cruickshank, F.R.C.S., I.M.S. *Surg., Princ. and Pract. of*—N. Mangeshrao, M.B., C.M., F.R.C.S., F.R.C.P.S.I. *Tuberculosis*—K. V. Rao, M.D. *Vaccin.*—C. S. G. Pillai, M.B., C.M., L.R.C.P. & S., D.P.H. Edin. 53 Assistants.

MADRAS, *Stanley Medical College* (Royapuram). Principal—Rao Bahadur T. S. Tirumurti, B.A., M.B., C.M., D.T.M. & H.

Teaching

MADRAS, *Lady Willingdon Training College.* Principal—Miss J. M. Gerrard, M.A. Other Profs.: Miss L. Philipsz, M.A., L.T.; Miss V. Koman, M.A.; Miss E. Lazarus, B.A., L.T.; Sr. R. S. Subhalakshmi, B.A., L.T. 6 other Teachers.

MADRAS, *St. Christopher's Training College.* Principal—Miss K. N. Brockway, M.A. Camb. Other Profs.: Miss M. Mathew, M.A.; Miss H. T. Scudder, M.A., L.T. Tor. 6 other Teachers.

SAIDAPET, *Teachers' College.* Principal—N. R. Krishnamma, M.A. Camb. (Acting). Other Profs.: C. N. E. Mudaliyar, M.A., L.T.; N. S. Ayyar, M.A., L.T.; K. R. G. Reddiar, M.A.; T. S. Singh, M.A., M.Sc., L.T.; N. Raghunathaayyangar, M.A., L.T. 2 Asst. Lecturers.

Veterinary

MADRAS, *Madras Veterinary College* (B.V.Sc.) Principal—T. J. Hurley, M.R.C.V.S., D.V.S.M. (seconded), M. R. V. Pamikkar, B.Sc., M.R.C.V.S. (offg.). *Anat.*—H. N. Chelvaayyangar, G.M.V.C. *Hygiene*—M. R. V. Panikkar, B.Sc., M.R.C.V.S. *Medicine*—Principal; *Parasitol.*—M. Anantanarayanarao, G.M.V.C. *Pathology and Bacteriology*—E. O. Longley, B.Sc. Lond., M.R.C.V.S. *Physiol.*—M. A. Rangaswamiayyar, B.A., G.M.V.C. *Pharmacol.*—M. Sundaranathan, G.M.V.C. *Surg.*—K. S. Nayar, G.B.V.C., M.R.C.V.S. 10 Asst. Lecturers.

AFFILIATED PROFESSIONAL COLLEGES

Agriculture

COIMBATORE, *Agricultural College.* Principal—R. C. Broadfoot, N.D.A. C.D.A. *Agric.*—C. Ramaswami, B.A. Camb.; M. U. Vellodi, L.Ag. *Botany*—P. S. Jivannarao, M.A. *Chem.*—H. Shivarao, B.Sc., A.I.C. *Engin.*—B. M. L. Mudaliyar, B.E.; C. Narasimhaayyangar. *Hygiene*—P. S. Kuppuswamiayyar, G.M.V.C. *Biol.*—J. A. Muliyil, B.A., Ph.D. Dublin. 10 Lecturers.

APPROVED INSTITUTIONS

Oriental Learning

Two Institutions in Madras and 19 in other towns are recognized as qualified to provide instruction for the Oriental Titles.

GENERAL INFORMATION

This Univ., founded in 1857, was reorganized in 1923 as a Teaching and Residential Univ., and it continues to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the Univ. include a Senate, Syndicate, Academic Council, Faculties, and Boards of Studies.

Laboratories for research in Zool., Bot., and Biochem. are provided. There are also Depts. of study and research in the following subjects: Indian Hist. and Archæol., Indian Econ., Indian Philos., Maths., Statistics, Geog. and Politics and Public Administration.

FACULTIES. Arts, Science, Law, Medicine, Engineering, Teaching, Agriculture, Vet. Science, Commerce, Oriental Learning, and Fine Arts.

ADMISSION. The minimum qualification for entrance to Univ. other than Professional Courses is the Matricn. examn. and such other examn. held under the auspices of a Univ. or Public Body as are recognized by the Univ. Also the certificate issued under the S.S.L.C. Scheme in accordance with rules framed by the Univ.

DEGREES. B.A., B.A. (Hons.), M.A., M.Litt., D.Litt.; B.L., M.L., LL.D.; B.Sc., B.Sc. (Hons.), M.Sc., D.Sc.; B.E.; B.Com.; B.Sc.(Ag.); B.V.Sc.; M.B., B.S., M.D., M.S., B.S.Sc. (San. Sci.); B.O.L., M.O.L.; L.T.

DIPLOMAS. Geography, Modern Languages (French and German), Librarianship, Gynæcology and Obstetrics (D.G.O.), 1 yr.; Economics, Politics and Public Administration, Indian Music, 2 yrs.

ORIENTAL TITLES. Siromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Fazil, Abidi-i-Fazil, Tabih-i-Kamil, Afzal-ul-Attibba, Malpan and Soppar.

RECOGNITION of examns. of other Univs. is not granted in general terms. The Syndicate deals with each application on its merits.

FEES for Univ. examns. range from Rs. 12 to Rs. 200.

Fees levied by Colls. vary from Rs. 42 to Rs. 64 per term, according to courses.

Fees levied by the Univ. for Diploma Courses vary from Rs. 15 to Rs. 75.

RESIDENCE, ETC. Minimum cost of board and lodging for students living in European style, Rs. 50 p.m.; Indian, Rs. 30. A Students' Club, started under the auspices of the Madras Govt. in 1919, provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

UNIVERSITY STUDENTS' UNION. Inaugurated in November 1932 and located in a rented building in Madras, for the benefit of students in Constituent Colleges—giving facilities for social intercourse and games—managed by a governing body consisting of the Principals of Constituent Colleges.

RESEARCH STUDENTSHIPS, tenable 2 yrs., value Rs. 60 p.m. FELLOWSHIPS, Rs. 125 p.m.

PUBLICATIONS. *Calendar* (July)—vol. i., Administration, Statutes, Ordinances and Regns., Syllabuses; vol. ii., Constituent and Affld. Colls., Endowments, Graduates; *Annual Report*; *Minutes*; *Madras Univ. Magazine*; *Annals of Oriental Research*; *Tamil Lexicon* (6 vols. published).

THE YEAR 1937–38

BENEFACTIONS. Two endowments (value, Rs. 9650) for founding Prizes.

NEW DEPARTMENT AND POST. Reader in Politics and Public Administration.

OTHER DEVELOPMENTS. Employment Bureau instituted.

CHANGES IN REGULATIONS. Regulations for Diploma in Librarianship framed. Proposals for institution of B.Sc. Degree in Pharmacy and revision of Regulations for B.V.Sc. under consideration.

STUDENTS. Full-time: 16,907. Part-time: 130.

DEGREES. B.A., 1190; B.A. (Hons.), 148; M.A., 158; Ph.D., 5; B.Sc., 150; B.Sc. (Hons.), 41; M.Sc., 13; D.Sc., 4; M.A. (Research), 1; B.L., 246; M.L., 3; L.T., 302; B.E., 41; B.Sc. (Ag.), 21; M.B., B.S., 90; L.M.S., 2; M.D., 4; M.S., 1; B.S.Sc., 1.

TITLES. Oriental Learning—Siromani, 66; Vidvan, 147; Afzal-ul-Ulama, 10; Munshi-i-Fazil, 17.

DIPLOMAS. Economics, 3; Midwifery (D.G.O.), 5; French, 3; German, 8; Geography, 2; Indian Music, 9.

UNIVERSITY OF MYSORE

Founded 1916

CHANCELLOR—HIS HIGHNESS MAHARAJA SRI KRISHNARAJA WADIYAR BAHADUR OF MYSORE, G.C.S.I., G.B.E.

PRO-CHANCELLOR—HIS HIGHNESS SRI KANTIRAVA NARASIMHARAJA WADIYAR BAHADUR, G.C.I.E., Yuvaraja of Mysore.

VICE-CHANCELLOR—RAJAKARYAPRAVINA N. S. SUBBA RAO, M.A. Camb.

REGISTRAR—V. GOPALASWAMIAIENGAR, M.A.

LIBRARIAN—A. N. NARASIMHAIYA, Ph.D. Lond., M.A., L.T.

(U.) = Univ. Professor.

TEACHING STAFF

Archæology

Krishna, M. H., M.A., D.Lit. Lond. Director.

Botany

Sampatkumaran, M.A., Ph.D., S.M. Chic. Prof. (U.).
2 Asst. Profs., 7 Lectrs., 3 Demrs.

Chemistry

Sanjivarao, B., M.A., Ph.D. Lond. Prof.
Manjunath, B. L., M.Sc. Lond., D.Phil. Ox. Prof.
Srikantia, C., B.A., D.Sc. Zürich Prof.
4 Asst. Profs., 15 Lectrs., 5 Demrs.

Education

Siddalingiah, M., M.A., B.T., Ph.D. Prof.
2 Asst. Profs.

Engineering

Ramaswami, E. K., B.Sc. Lond., A.C.G.I., M.A., S.M.E., M.I.E. (India) (Principal, Coll. of E.) (Mech. E.) Prof.
Joshi, K. D., M.A., B.E., M.I.E. (India), M.R.San.I. (Civ. E.) Prof.
Das, J. P., M.Sc., M.I.E. (India) (Electr. E.) Prof.
5 Asst. Profs., 2 Lectrs., 8 Instrs., 3 Lab. Assts., 1 Foreman.

English

Mackintosh, A. B., M.A. Ox. and St. And., J.P. (Principal, Central Coll.) Prof. (U.).
Rollo, J. C., B.A. Ox., M.A. Glas., J.P. (Principal, Maharaja's College) Prof. (U.).
Nanjundiah, H. S., M.A. Actg. Prof.
Srikantia, B. M., M.A., B.L. Prof. (U.).
Black, Miss J. M., M.A. Aberd., B.A. Ox. (Principal, Maharani's Coll.) Prof.
6 Asst. Profs., 11 Lectrs., 3 other Teachers.

Geology

Ramarao, L., M.A., F.G.S. Prof.
1 Asst. Prof., 5 Lectrs., 1 Demr.

Hindustani, Persian, Arabic and Hindi

Shustery, A. M. A. Prof.
3 Lectrs., 1 Tutor, 5 Munshis.

History, Economics, and Political Science

D'Souza, V. L., B.A., B.Com. Lond. [Prof.
Krishna, M. H., M.A., D.Lit. Lond. Prof.
5 Asst. Profs., 10 Lectrs., 3 Tutors

Kannada

Srikantia, B. M., M.A., B.L. Hon. Prof.
Venkannaiya, T. S., M.A. Prof.
Krishnasastry, A. R., M.A. Asst. Prof.
6 Pandits, 3 Lectrs.

Mathematics and Statistics

Iyengar, K. S. K., B.A. Camb. Prof.
Madhava, K. B., M.A., F.R.A.S., A.I.A. Prof.
Madhavarao, B. S., D.Sc. Prof.
5 Asst. Profs., 18 Lectrs., 1 Tutor.

Philosophy, Psychology, and Logic

Wadia, A. R., B.A. Camb. Prof. (U.)
Gopalaswamy, M. V., B.A., B.Sc., Ph.D. Lond. Prof.
1 Asst. Prof., 10 Lectrs.

Physics

Telang, Venkatarao A., M.A., F.Inst.P. Prof.
Sundarachar, C. R., M.A. Actg. Prof.
5 Asst. Profs., 12 Lectrs., 3 other Teachers.

Sanskrit

Narasimhasastry, C. R., M.A. Prof.
1 Asst. Prof., 4 Lectrs., 7 Tutors, 1 Pandit (Visiting).

Tamil and Telugu

4 Pandits (2 for each).

Zoology

Subbarao, A., B.A., D.Sc. Lond., F.R.M.S. Prof.
2 Asst. Profs., 7 Lectrs., 2 Demrs.

Medicine

Robinson, J. F., B.A., M.D., F.R.C.S.E., F.A.C.S. (Surgery) Prof.
Hiriyanmaiya, S., B.A., M.B., B.S. Prof.
Appajee, Y., M.Sc. Lond., B.A., M.B., B.S. (Anatomy) Prof.
Venkatasubbarao, B., B.A., M.B., B.S., M.R.C.P. (Medicine) Prof.
Natarajan, C. V., B.Sc., M.B., B.S., D.P.H. (Pathol.) Prof.
Captain, Miss K. S., M.D., B.S. Lond. and Bom., D.T.M. & H. Eng., L.M. Dub. (Midwif.) Prof.
Ponnambalam, A. M., B.A., L.M.S., M.R.C.P. Ed., D.O.M.S. (Ophthal.) Prof.
Misra, S. C., M.B., B.S., L.R.C.P., F.R.C.S. (Clinical Surgery) Prof.
Raghinatha, Ras. G. S., B.Sc., M.B., B.S., D.Phil. (Pharmacol.) Prof. in charge of Dept.

Asst. Profs.—Anat. 1, Bot. 1, Physics 1, Physiol. 1, Zool. 1.

Lecturers.—Anæsth. 1, Anat. 2, Dental Surg. 2, Hyg. 2, Infect. Dis. 2, Jurispr. 2, Malariol. 1, Mat. Med. 1, Med. 1, Mental Dis. 2, Midwif. 1, Ophthal. 1, Otorhinolaryn. 2, Pharmacol. 1, Pathol. 2, Physiol. 2, Surg. 1, Tuberc. 2, Vaccin. 2, Venereal 1, X-ray and Radium Therapy 1.

Demrs.—Anat. 1, Biochem. 2, Biol. 1, Med. 2, Midwif. 2, Pathol. 1, Physiol. 1, Surg. 2.

CONSTITUENT COLLEGES

THE MAHARAJA'S COLLEGE, Mysore. Principal and President—J. C. Rollo, M.A. Ox., J.P.

THE CENTRAL COLLEGE, Bangalore. Principal and President—A. B. Mackintosh, M.A. Ox. and St. And., J.P.

THE COLLEGE OF ENGINEERING, Bangalore. Principal and President—E. K. Ramaswami, B.Sc., A.C.G.I., M.A., S.M.E., M.I.E. (India).

THE MEDICAL COLLEGE, Mysore. Principal and President—J. F. Robinson, B.A., M.D., F.A.C.S., F.R.C.S.Ed.

THE MAHARANI'S WOMEN'S COLLEGE, Mysore. Principal and President—Miss J. M. Black, M.A. Aberd., B.A. Ox.

GENERAL INFORMATION

This Univ. was founded in 1916 with two constituent Colleges, the Central Coll., Bangalore, and Maharaja's Coll., Mysore, which had for 25 yrs. been affiliated to the Univ. of Madras. To these have since been added the Women's and Professional Colleges mentioned above. There are also four Intermediate Colleges, two for men at Mysore and Bangalore, two for women, one at Bangalore and the other at Mysore, and a Medical School at Bangalore. The capital cost of all the Univ.'s buildings amounts to Rs. 13,59,643.

LIBRARIES. Univ., 26,677 vols.; Colleges, 71,270 vols. Sansk. and Oriental, 16,253 vols. and 10,634 MSS.

FACULTIES. Arts, Science, Medicine, Engineering and Technology.

TERMS: June to Oct., Nov. to March.

ADMISSION to B.A. or B.Sc. courses is normally by Intermediate examn. in English, a second language, and three other subjects. Candidates prepare for this by two years' study in Intermed. Colleges after the ordinary High School course. Admission to the B.E. course is given under certain conditions to Interm. Sci. holders or B.Sc.'s with Physics, Chem. and Maths. as optional subjects and to the M.B., B.S. course if they have undergone the Pre-Medical course and passed the Pre-Medical examn. The B.Com. course suspended for the present.

DEGREE COURSES. 2 yrs.—B.A. or B.Sc.; 3 yrs.—B.A. or B.Sc. (Hons.); 4 yrs.—B.E. (successful candidates are eligible to take the degree after a year's practical course in a recognized works or firm); 5½ yrs.—M.B., B.S.; graduate course for Master's Degree—1 yr. for Hons. grads. and 3 yrs. for Pass grads., for B.T. 1 yr. after the B.A. or B.Sc. The D.Litt., D.Sc., and LL.D. are Honorary.

DIPLOMA COURSE. L.M.P., 4 yrs. after High School.

RECOGNITION OF DEGREES AND EXAMNS. OF OTHER UNIVERSITIES. See *Yearbook* 1935, Nos. 1-13 (deleting No. 10). In addition the following:

(1) The Cambridge School Certificate Examn. is recognized as qualifying for admission to the Intermed. course if passed with credit in English, Second Language, Elementary Maths. and one of the following—Hist., Geog., Physics, Chem., and Biol., and the whole examn. passed at one and the same time.

This Examn. is considered as a qualification only for admission to the Intermed. Course or the L.M.P. Course and not to any higher course.

In either case it is provided that the subjects taken at the examn. are cognate to those offered for the Univ. course and that the candidate is certified by

the Univ. teacher concerned to be able to follow the instruction in the Second Language offered.

(2) The I.M.M.T.S. Dufferin Passing Out Certificate (Engineering branch and executive branch) is recognized as qualifying for admission to the Intermed. course of this Univ. under Ordinance 8, Clause (ii.) provided that the rules of differential minima prescribed in Ordinance 9 are satisfied and that a candidate seeking admission as above shall satisfy the head of the institution in which he seeks admission as to his competency to follow the instruction in the Second Language.

(3) The Matriculation Examination of the Calcutta Univ. is recognized as qualifying for admission to the Intermediate Course in this Univ. on a basis of reciprocity.

RECOGNITION BY OTHER UNIVERSITIES. See *Yearbook* 1935. In addition the following:

The M.B., B.S. Degree of Mysore Univ. has been recognized as a registrable degree by the Govts. of Madras and Bengal.

The Govt. of Bombay have recognized the M.B., B.S. Degree of Mysore Univ. for Medical Registration in Bombay.

The examns. of Mysore Univ. are recognized as equivalent to the corresponding examns. of the Univ. of Madras.

For recognition by British Univs., see Appendix I.

The B.T. Degree Examn. of Mysore Univ. is recognized as equivalent to B.T. Degree Examn. of Univ. of Bombay.

INSPECTION OF INTERMED. COLLS. not forming parts of Constituent Colls. is made by Profs. deputed by the Council.

ENDOWMENTS, 108. Amount, Rs. 4,39,767.

SCHOLARSHIPS. Six, value Rs. 50, are awarded for post-graduate study and research under the profs. of this Univ.

FEES for courses for B.A., Rs. 96+12 (for Science subjects) a yr.; B.A. (Hons.), Rs. 120 a yr.; B.Sc., Rs. 120 a yr.; B.Sc. (Hons.), Rs. 144 a yr.; M.A., Rs. 120 a yr., and M.Sc., Rs. 144 a yr.; B.E., Rs. 150 a yr.; Pre-medical Course, Rs. 72; M.B., B.S., Rs. 200 a yr.; B.T., Rs. 80 a yr.; and L.M.P. (Diploma), Rs. 60 a yr.; Inter. Arts, Rs. 72+8 (for Sci. Subjects); Inter. Sci., Rs. 88 a yr.

For Non-Mysoreans. Pre-medical, Rs. 120; M.B., B.S., Rs. 300; B.E., Rs. 250; B.T., Rs. 120; L.M.P., Rs. 120.

RESIDENCE. Univ. Hostels at Mysore and Bangalore. The average hostel exs. for 9 mos. is about Rs. 144. Residences of students not living in hostels or with their guardians are inspected by members of Students' Residence Committees.

A STUDENTS' INFORMATION BUREAU is maintained.

EXTENSION LECTURES. A Committee appointed by the Univ. Council and consisting of Profs. and others makes arrangements for courses of lectures on suitable subjects for the benefit of those unable to attend the ordinary courses of study at the Univ., and to publish such of the lectures as may be approved by the Committee. (There were 5 courses in the year, of which 3 were delivered in Kannada.)

PUBLICATIONS. *Calendar*; *Examination Papers*; *The Prabuddha-Karnataka* (Kannada Quarterly); *Finance*; *Sanskrit Drama*.

THE YEAR 1937–38

NEW BUILDINGS. Administrative block, Medical College. Tea Pavilion, University Union, Bangalore.

NEW DEPARTMENT AND POST. Post of a Hindi Lectr. sanctioned.

CHANGES IN LAWS. 1. Ordinances relating to entrance qualification revised and minimum percentage of marks prescribed in respect of candidates for S.S.L.C. examn. for admission to Univ. courses. 2. No admission may now be made later than a fortnight from date of commencement of session except with previous approval of Vice-Chancellor. 3. Course of study and scheme of examn. in Hindi as optional subject for Inter. Examn. in Arts prescribed. 4. New ordinance prescribing conditions under which candidates for Hons. degree failing to qualify may apply for ordinary degree. 5. Courses of study for B.T. degree examn. revised. 6. "General Statistics, Probability and Finite Difference," added to list of special subjects for B.Sc. Hons. degree examn. in Maths.

EXTRA-MURAL WORK. 11 extension lectures delivered at 10 places. Rural welfare work under consideration.

STUDENTS. Full-time : 3143, including 73 graduates.

DEGREES. B.A., 81 ; B.A. (Hons.), 29; M.A., 9 ; B.Sc., 124 ; B.Sc. (Hons.), 23 ; M.Sc., 13 ; B.T., 33 ; M.B., B.S., 12.

NAGPUR UNIVERSITY

Founded 1923

VISITOR—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE CENTRAL PROVINCES.

VICE-CHANCELLOR—T. J. KEDAR, B.A., LL.B., M.L.A.

TREASURER—DIWAN BAHADUR K. V. BRAHMA, C I.E., M.B.E., B.A., LL.B.

REGISTRAR—U. MISRA, M.A., LL.B.

ASSISTANT REGISTRAR—K. R. PANDYA, M.A. All.

UNIVERSITY COLLEGE

LAW COLLEGE, NAGPUR. Principal—Y. V. Jakatdar, B.A. All. and Ox. Lectrs. :—D. W. Kathalay, B.A., LL.D. ; V. K. Rajwade, M.A., LL.M. Bom. ; P. Y. Deshpande, M.A., LL.B. ; B. L. Gupta, B.A., LL.B. Bom. ; Kasturchand Jain, B.A., LL.B. ; Mohd. Hidayatullah, B.A. ; W. Dutt.

OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

MORRIS COLLEGE, NAGPUR (M).*
HISLOP COLLEGE, NAGPUR (H).*
ROBERTSON COLLEGE, JUBBULPORE (R).*
COLLEGE OF SCIENCE, NAGPUR (Sc).*
SPENCE TRAINING COLLEGE, JUBBULPORE (T).*
KING EDWARD COLLEGE, AMRAOTI (K).*
AGRICULTURAL COLLEGE, NAGPUR (A).*
CITY COLLEGE, NAGPUR (C).*
HITKARNI CITY COLLEGE, JUBBULPORE (HC).*
HITKARNI LAW COLLEGE, JUBBULPORE (L).*
CENTRAL COLLEGE FOR WOMEN, NAGPUR (W).*
RAJKUMAR COLLEGE, RAIPUR (RK).*
WASUDEO ARTS COLLEGE, WARDHA (WA).*
GOVERNMENT SCHOOL OF ENGINEERING (E).*

* (M), (H), etc. : symbols for reference to the Colleges

TEACHING STAFF

Agriculture

Churchill, E. A. H., B.Sc. Edin. (A).
Phatak, B. R., B.Ag. Bom. (A).
Subbarao, B., L.Ag. (A).
Mishra, S. K., L.Ag. (A).
Lal, Dhanna, L.Ag. (A).
Rahim, M. A., L.Ag. (A).
Joshi, K. G., B.Ag. (A).

Arabic and Persian

Hasan, S. A. H., M.A. All. (K).

Taqi, S. G., M.A. All. (M).
Hussain, M., M.A. (M).
Khan, Mrs. S. A. (W).
Ghani, M. A., M.A., M.Litt. Camb. (R).

Botany

Bhatia, G. S., M.Sc. Panj. (A).
Dastur, J. F., M.Sc. Bom., D.I.C. (A).
Dwivedi, B. P., B.Ag. (A).
Varadpande, K. V., M.Sc. (Sc).
Nirula, R. L., B.Sc., Ph.D. Lond., D.I.C. (Sc).
Shukla, V. B., M.Sc. Luck. (Sc).
Vaidya, G. B., B.Ag. (A).

Chemistry, v. also Physics

Chakravarti, D. N., D.Sc. All. (K).
Tamhankar, G. R., M.Sc. All. (R).
Godbole, S. N., M.Sc. All. (R).
Surey, L. S., M.Sc. All. (Sc).
Kale, V. D., B.Sc. All. (H).
Gokhale, L. K., M.Sc. (Sc).
Chandorker, D. V., M.Sc. All. (Sc).
Joshi, R. H., M.Sc. (A).
Kulkarni, J. W., M.Sc. (K).
Gore, V. V., D.Sc. (Sc).
Paranjpe, D. R., M.Sc. (Sc).
Kappanna, A. N., D.Sc. Dacca (Sc).
Patwardhan, H. W., M.Sc. (Sc).
Krishnamoorty, K., D.Sc. Lond. (Sc).
Bal, D. V., M.Ag., A.I.C. (A).

Economics

Nanavati, M. H., M.A., LL.B. Bom. (M).
Naidu, V. S., M.A. Madr. (R).
Raghaviah, W. B., M.A. Madr., Ph.D. Edin. (H).
Gupta, A. C. Sen, M.A. Edin. (Dean, Fac. of Arts) (M).
Dadachanji, B. E., M.A. Bom. (M).
Seth, H. C., Ph.D. Lond. (K).
Singh, J., B.A. Ox., M.A. (RK).
John, Miss A., M.A. Madr., B.Sc. Lond. (W).
Munje, B. H., M.A. (C).
Suxena, G. P., M.A., LL.B. (HC).
Patel, J. S. K., M.A. Luck. (H).
Joglekar, N. M., M.A. (A).

Education

Staley, H. S., M.A. Camb. (Dean of Fac.) (T).
Wankhade, O. M., M.Sc. (T).
Mitra, N. N., B.Sc., L.T. All. (T).
D'Souza, L. P., M.A. (T).
Choudhuri, M. L., B.A., L.T. (T).
Franklin, E. W., M.A., B.T. (T).
Chatterji, Kalidas, B.Sc., L.T. (T).
Mehta, R. D., B.A., L.T. (T).
Awasthi, S. P., M.A., L.T. (T).
Nivasarkar, G. N., B.A., L.T. (T).
Edwards, S. J., Ph.D. N.Y. (T).
Mustafa, G., B.A. (T).
Mangrulkar, B. A., B.T. (T).
Gupta, D. P. (T).

Engineering

Cuerden, F. J., B.Sc. Lond. (E).
Chatterjee, C. (E).
Mehta, Lalchand, M.A. All. (E).
Dhyansingh (E).
Garde, V. G., M.Sc. Manc. (E).
Joseph, T. C., M.E. Madr. (E).
Bhattacharya, B. M., B.Sc. Calc., L.T. (E).
Thompson, W. (E).
Kundanlal (E).

English

Saldanha, Miss M. A., M.A. Madr. (W).
Verma, Sheo Prasad, M.A., Ph.D. Lond. (R).
Virdi, D. S., M.A. (C).
Patel, K. P., M.A. Bom. and Lond. (R).
Smith-Pearse, T. L. H., M.A. Ox. (RK).
Hassan, S. A. H., M.A. All. (K).
Jain, H. L., M.A., LL.B. All. (K).
Tostevin, F. P., O.B.E., M.A. Ox. (K).
Ganguli, N., M.A. All. (M).
Chordia, S. S., M.A. All. (M).
Guha, R. C., M.A. Dacca (M).

Gopal, Madan, M.A. All., B.Litt. Ox. (M).
Deshpande, Mrs. K., B.A. Lond. (M).
Dabadghao, Mrs. K., M.A. All. (WA).
Ghosh, M., M.A. All. (R).
Mitra, M. N., M.A. Dacca (Sc).
Jacob, G., M.A., M.Sc. Agra (H).
Nascar, P. N., M.A., L.T. All. (Sc).
Maolankar, R. B., M.A., LL.B. (K).
Gardiner, T. W., M.A. Camb. (H).
Mane, E. G., M.A. Bom. (H).
Deshpande, B. R., M.A. (WA).
Wanamali, V. R., M.A. Bom. (C).
Muley, D. S., M.A., B.T. Ben. (HC).
Chatterjee, G. C., M.A., LL.B. (R).

Entomology

Dutt, G. R., B.A. Panj. (A).

Geography

Rangarao, Miss K. S., M.A. Madr., L.T. (W).
Forbes, V. S., M.A. Camb. (RK).
Tomar, U. S., B.A., B.T. (RK).

History

Katare, S. N., M.A., Ben. (R).
Tostevin, F. P., O.B.E., M.A. (K).
Fernandez, T., M.A. All. (K).
Gardiner, T. W., M.A. Camb. (H).
Menon, K. V., M.A. Madr. (WA).
Narain, Hirde, M.A., B.T. Panj. (M).
Deshpande, N. M., M.A., LL.B. (HC).
Powar, B. L., M.A. All. (R).
Sinha, H. N., M.A. All., Ph.D. Lond. (M).
Paul, J. N. W., M.A. All. (R).
Pahade, J. S., M.A. All. (C).
Mohan, V. C. M., M.A. Madr. (RK).
Shukla, B. V., M.A., LL.B. All. (HC).
Chatterjee, G. C., M.A., LL.B. (HC).
Singh, R. M., M.A. (M).

Indian Languages, Modern

Pendse, S. D., M.A., M.O.L. Panj. (H).
Banhatti, S. N., M.A., LL.B. Bom. (M).
Surey, L. S., M.Sc. (Sc).
Pathak, R. D., M.A. Ben. (R).
Chordia, S. S. L., M.A. All. (M).
Bhawalkar, N. B., B.A. Calc. (W).
Kolte, V. B., M.A., LL.B. (K).
Gore, V. V., D.Sc. (Sc).
Pandit, B. S., M.A. (H).
Pandharipande, S. L., M.A. (C).
Deshpande, V. G., M.A. (H)
Shrivastava, P. N., M.A. (W).
Bajpeyi, B. P., M.A. (HC).
Shukla, V. B., M.Sc. (Sc).
Virdi, D. S., M.A. (C).
Pathak, Y. M., M.A. (WA).

Law, v. also *supra*—Univ. Coll.

Palit, H. D., LL.B. All. (L).
Dubey, K. L., LL.B. All. (L).
Roy, N. R., LL.B. All. (L).
Naolekar, R. G., LL.B. All. (L).

Mathematics

Degweker, B. V., M.A., M.Sc., LL.B. All. (HC).
Belekar, S. B., M.A. Bom. (R).
Mone, T. V., M.A. Bom. (HC).
Kapur, R. K. D., M.Sc. All. (RK).
Dhar, S. C., D.Sc. Calc. (on leave) (Sc).
Patel, K. P., M.A. Bom. and Lond. (R).
Panday, K. D., M.A. All. (K).
Iyer, K. S. S., B.E. Mysore (Survey also) (A).
Raghavachariar, V., M.A. Madr. (Sc).
Shastri, N. A., M.Sc. (Sc).
Shadbe, N. G., D.Sc. Edin. (Sc).
Chandy, P. J., M.A. Madr. (H).

Modern European and Classical Languages

Leonie, Sister (French) (M).
(Also other members of the staff, who teach other subjects.)

Music

Patwardhan, D. S. (W).

Mycology

Dastur, J. F., M.Sc., D.I.C. (A).
Mahmud, K. A., B.Sc. (A).
Panditrao, D. B., B.Ag. Bom. (A).

Persian, v. Arabic

Philosophy, v. also Engl.

Moses, D. G., M.A. Madr. (H).
Ramanatham, P. S., M.A. Madr. (K).
Deshpande, B. R., M.A. (C).
Devadutt, V. E., M.A. And. (H).
Prasad, Jwala, M.A. All., Ph.D. Camb. (R).
Dharamaraj, M. G., M.A. Mad. (H).
Pathak, S. N., M.A. (M).
Shrivastava, S. N., M.A. All. (HC).
Gunamani, I. D., M.A. Madr. (H).
Deshmukh, C. D., M.A., Ph.D. Lond. (M).
Londhe, D. G., M.A., Ph.D. Leipzig (WA).
Naidu, Miss S., M.A. Madr. (W).

Physics, v. also Chem.

De, M. L., M.A. Calc. (Dean, Fac. of Sc.) (Sc).
Chinchalkar, S. W., D.Sc. (Sc).
Kulkarni, J. W., M.Sc. (K).
Mukerji, Umadas, M.Sc. (K).
Agnihotri, G. P., B.Sc. All. (H).
Deoras, R. S., M.Sc. All. (Sc).
Thatte, V. N., D.Sc. (Sc).
Makoday, G. S., M.Sc. (R).
Dabadghao, V. M., M.Sc. (Sc).
Paranjpe, D. R., M.Sc. (Sc).
Ganesan, A. S., M.A., Ph.D. Lond., D.I.C. (Sc).
Shahane, S. M., M.Sc. (R).
Kapre, P. K., Ph.D. Lond. (Sc).
Sen, B. R., M.Sc., Ph.D. Lond. (R).
Thosar, B. V., M.Sc. (Sc).

Political Science

Nagarkar, N. G., M.A., LL.B. Bom. (HC).
Garde, D. K., M.A. All. (C).
Sen, A., M.A. Calc. (C).
Shukla, B. V., M.A., LL.B. All. (HC).
Avasthy, A., M.A. Luck. (H).
Jagirdar, P. J., M.A. Ben. (WA).
Deshpande, N. M., M.A., LL.B. (HC).
Dubey, B. C., M.A. (HC).
Abraham, A. L. T., M.A. Madr. (H).

Sanskrit, v. also English

Somalwar, S. G., M.A. All. (K).
Chaturvedi, S. P., M.A. All. (M).
Mirashi, V. V., M.A. Bom. (M).
Jain, H. L., M.A., LL.B. All. (K).
Navlekar, N. R., M.A. All. (R).
Bapat, G. B., M.A. Bom. (H).
Varadpande, D. V., M.A. (C).
Paranjpe, P. M., M.A. (HC).
Gyani, S. D., M.A. Ben. (WA).

Veterinary Science

Dighe, S. K. (A).

Zoology

Moghe, M. A., M.Sc. All. and Bom., Ph.D. Lond. (Sc).
Karamsingh, M.Sc. Panj. (Sc).
Husain, Syed. M., M.Sc. Alig (Sc).
Bakshi, K. M., B.Sc. (Sc).

GENERAL INFORMATION

The University was established in 1923. The colleges (except the Agricultural College) were formerly affiliated to the Univ. of Allahabad. The authorities of the Univ. are the Court, Executive Council, Academic Council, and Faculties. The Univ. does not hold a Matriculation Examn., but admits

students who have passed (*a*) the Final Examn. of the Central Provinces Board of High School Education, or an examn. recognized (with the sanction of the Govr.-Genl. in Council) as equivalent thereto, or (*b*) the Matricn. Examn. of an Indian Univ.

FACULTIES. Arts, Science, Law, Education and Agriculture.

ADMISSION to the Univ. is confined to students who have passed the High School Certificate Examn. held under the C.P. High School Education Act of 1922 (also as applied to Berar), or any other recognized equivalent examn.

DEGREES. *Arts*—B.A., 2 yrs. after Inter. examn.; B.A. Hons., 3 yrs.; M.A., 2 yrs.' study after B.A.; Ph.D., open to M.A.s of 3 yrs.' standing, by thesis; D.Litt., open to Ph.D.s of 3 yrs.' standing for original contribution to learning. *Science*—B.Sc., 2 yrs. after Inter. examn.; B.Sc. Hons., 3 yrs.; M.Sc., 2 yrs.' study after B.Sc.; D.Sc., 3 yrs. after M.Sc. for research conducive to advancement of science. *Law*—LL.B., 2 yrs. after approved Bachelor's degree; LL.M., 3 yrs.' course for approved graduates in Law; LL.D., open to approved Masters of Law of 3 yrs.' standing, by thesis and examn. *Education*—B.T., 1 yr.'s postgraduate study; M.Ed., open to Bachelors of Teaching (and certain other persons recommended by the Senate), by examn. and thesis. *Agriculture*—B.Sc., 2 yrs. after Inter. examn.; M.Sc., open to Bachelors of Agric. and other approved graduates, by thesis. The higher degrees are in every case open to approved graduates of other Univs.

DIPLOMAS. Teaching (2 yrs.), Engineering (3 yrs.).
Examinations in Oriental Learning were instituted in 1938.

THE STUDENTS' INFORMATION BUREAU. The Bureau advises and helps students who go abroad for advanced studies.

UNIVERSITY LIBRARY. The library contains 29,219 vols.

PUBLICATIONS. *Calendar*; *Annual Report*; *Examn. Papers*; *Prospectus*, etc. A Journal of research work done by the teachers of the University is published annually.

THE YEAR 1937–38

BENEFACTIONS. No new endowment during the year.

CHANGES IN REGULATIONS. Degrees in Agric. changed from B.Ag. and M.Ag. to B.Sc.(Agr.) and M.Sc.(Agr.); Master's degree in Educ. (M.Ed.) instituted. Statute 33 extending term of office of Vice-Chancellor to 3 yrs. approved. Term of office of Treasurer also extended to 3 yrs. by resolution of Executive Council. Former Dept. of Studies in Bot. and Zool. abolished and replaced by two separate Depts. of Studies in Bot. and Zool. respectively. Special English *optional* instead of *compulsory* subject for B.A. Examn.; number of optional subjects raised from 2 to 3; General English continues as compulsory subject. M.A. Ordinance amended to provide that non-collegiate candidates shall select optional subjects, groups and papers, from among those offered by students of one or more colls. in Univ. More systematic and elaborate classification of budget heads of Univ. Income and Expenditure adopted.

LAXMINARAYAN TECHNOLOGICAL INSTITUTE. With free grant by Govt. of remaining land measuring 25.10 acres on Nabah's Hill extensive site measuring 78.4 acres now available for meeting wishes of late Rao Bahadur D. Laxminarayan. Architect's plans ready and being examined by Univ. Govt. and Improvement Trust authorities. No new research grants made from bequest

funds during year, whole policy of awarding such grants having been under review of Academic Council. Decided to continue grants in future. Pending completion of Institute buildings Dr. Ram Sinha Thakur appointed Officer on Special Duty for carrying on Technological Experiments and other preliminary work for establishment of Institute. Bungalow near Convocation Hall hired for purpose. Total value of bequest property now stands at Rs. 58,66,453.

STUDENTS. 3735.

DEGREES. B.A., 385; B.A. (Hons.), 10; M.A., 83; LL.B., 157; B.Sc., 52; B.Sc. (Hons.), 2; M.Sc., 12; B.T., 29; B.Ag., 16.

OSMANIA UNIVERSITY, HYDERABAD, DECCAN

Founded 1919

PATRON—HIS EXALTED HIGHNESS THE NIZAM, G.C.S.I., G.B.E.

CHANCELLOR—Rt. Hon. Sir AKBAR HYDARI, LL.D., D.C.L. Ox.

VICE-CHANCELLOR—NAWAB MAHDI YAR JUNG BAHADUR, M.A. Ox.

PRO-VICE-CHANCELLOR—(Acting) QAZI MOHAMAD HUSAIN, M.A. Panj., B.A., LL.B. Camb.

REGISTRAR—H. A. ANSARI, B.A. All.

TEACHING STAFF

THE UNIVERSITY COLLEGE (ARTS, SCIENCE, THEOLOGY, AND LAW)

Botany

Saiduddin, M., B.Sc. Bom., M.A. Edin. Prof.

Bari, Abdul, M.Sc. Bom., B.T. Alig. Lectr.

Salam, Abdus, M.Sc. Lectr.

Chemistry

Qureshi, M., M.Sc. Panj., Ph.D. Berlin Prof.

Husain, S., M.Sc. Alig., Ph.D. Lond. Prof.

Khan, M. A., B.Sc. All. Prof.

Lecturers

Rao, I. S. R., M.Sc. Dacca.

Rahman, Khalilur, M.Sc. (on leave).

Tahir, N. A., Ph.D. Lond., M.Sc.

Mohamad, Syed S., M.Sc. (offg.).

Basroor, V., M.Sc. Lond.

Economics

Rahman, H., M.A., LL.B. All., B.Sc.(Econ.) Lond. (on deputation) Prof.

Qureshi, A. I., M.Sc. Lond. and Panj., Ph.D. Dub. (actg.). Prof.

Qadir, M. A., B.A. Madr., B.Sc. (Econ.) Lond. Lectr.

Husain, Syed A., M.A., LL.B. Luck., L.T. Alld. Lectr.

Rizvi, S. A. L., B.Sc. Lond., M.A., LL.B. Alig. Lectr.

English

Khan, M. H. A., B.A. Ox. Prof.

Harding, F. J. A., B.A. Ox., Dip. in Ed. Ox. Prof.

Virabhadrudu, T., M.A., L.T. Madr. Prof.

Doraiswami, M.A., L.T. Madr. (on leave) Lectr.

Krishnan, V. S., B.A. Ox. Lectr.

Aslam, M., M.A. Madr. Actg. Lectr.

Sebastian, J. J., M.A. Nag. Actg. Lectr.

Ahmad, Aziz, B.A. Lond. Lectr.

History

Sherwani, H. K., M.A. Ox. Prof.

Rahman, M. J., M.A. Panj. Prof.

Saksena, K. C. Roy, M.A. All. Reader.

Khan, Yusuf H., D.Litt. Paris Reader.

Topa, I. Nath, Ph.D. Freib. Reader.

Siddiqi, Abdul Majid, MA., LL.B. Lectr.

Ahmad, S. S., M.A. Lectr.

Languages (Ancient and Modern)

Haq, Abdul, B.A., D.Litt. All. (Urdu) Prof.
Haq, Abdul, B.Litt., D.Phil. Ox. (Arabic) Prof.
Nizamuddin, Muhd., Ph.D. Camb. (Persian) Prof.

Readers

Ibrahim, Syed (Arabic).
Khan, A. H. (Persian).
Husaini, Qari Syed K., M.A., LL.B., Ph.D. Lond. (Persian).
Sajjad, Syed, M.A. All., Ph.D. Lond. (Urdu).
Qadri, G. M., Ph.D. Lond., M.A. (Urdu).
Rao, R. S. (Telugu).
Shastri, H. H. (Sanskrit).

Lecturers

Al Qaiti, Saif bin Sultan H., M.A., LL.B. (Arabic).
Nabi, S. (Arabic).
Faruqi, L.A., M.A., LL.B. (Persian).
Sarwari, M. A. Q., M.A., LL.B. (Urdu).
Rao, D. K. Bhimsen, M.A. Mysore (Kanarese).
Bhusari, R. M., M.A. Calc. and Nag. (Marathi).
Qutubuddin, Qari, L. ès L. Egypt (French).
Husain, S. J., Ph.D. Heid. (German).

Law

Mirza, H. A. Prof.
Musavi, A. A., B.A. Bom., LL.B. Alig. Reader.
Hamidullah, M., Ph.D. Bonn, D.Litt. Paris Lectr.

Mathematics

Husain, Qazi Mohd., M.A. Panj., B.A., LL.B. Camb. Prof.
Chand, K., M.A. Camb. Prof.
Siddiqi, M. R., M.A. Camb., Ph.D. Leipz. Prof.
Ali, S. B., M.A. Reader.
Muhiuddin, Mohd. Khwaja, M.A. Madr. Lectr.
Venkatachari, V. P., M.A. Lectr.

Philosophy

Hakim, K. A., M.A., LL.B. Panj., Ph.D. Heidelberg Prof.
Valiuddin, M., M.A. Alig., Ph.D. Lond. Reader.

Lecturers

Salahuddin, M., M.A. Dacca.
Rahman, M. W., M.A. Panj.
Lal, S. M., M.A., B.T. Alig.
Quddus, Kh. A., M.A. (Comp. Morals).

Physics

Rahman, W., B.Sc. Calc. Prof.
Ahmad, N., M.A., B.Sc. All. Reader.
Ali, S. Mehdi, Ph.D. Reader.

Lecturers

.....

Wafaqani, S. M. Y., B.A., M.Sc. Dacca.
Lal, N. Ram, M.Sc. Alig., Ph.D. Lond.
Satyanarayan, R., B.Sc. Lond., A.R.C.S.
Qadri, Syed Ahmed, B.Sc. Manc.

Sociology [Reader.

Hasan, Syed J., Ph.D. Heid.

Theology

Gilani, M. A. Prof.
Ahmad, Zahiruddin, D.Litt. Egypt, M.A., L.T. (Philosophy of Islam) Reader.
Nadavi, Abdul Bari Reader.
Qutbuddin, Qari, L. ès L. Egypt, B.A. Reader.

Lecturers

Siddiqui, A. Q., M.A. (Logic).
Ahmed, Syed F. (Quranic Exegesis).
Jafari, M. O., (Comp. Theology).
Ali, Muhd. (Traditions).
Musamuddin, Modh. (Islamic Law)

Zoology [Prof.

Das, B. K., M.Sc. All., D.Sc. Lond.
Rahimullah, M., B.Sc. Alig., M.Sc. Lectr.
Singh, Satyanarayan, M.Sc. Alig. Lectr.

Medical College

Principal—H. Haider Ali Khan, L.M. & S. Bom., L.R.C.P. Lond., M.R.C.S. Eng., F.R.C.S. Edin.

Anatomy

Lal, B. M., B.A. Madr., M.B., B.S. Bom., M.Sc. Lond. Prof.
Sahgal, S. P., M.B., B.S. Bom. Reader.
Husain, Syed Mukhtar, B.Sc. Alld., M.B., B.S. Lucknow Lectr.

Bacteriology v. Pathol.

Hygiene

Husain, M. M. S., M.R.C.S. Eng., L.R.C.P. Lond., D.P.H., D.O.M.S., D.T.M. & H. Lond. Pt.-time Lectr.

Medical Jurisprudence

Sanichar, Capt. M. G., I.M.S., F.R.C.S. Ed. Pt.-time Lectr.
Pandit, M. K., M.B., B.S. Bom., L.M. Rot., F.R.C.S. Ed. Extra Lectr.

Medicine

Chandra, Benkat, M.B., B.S. Bom., M.R.C.P. Lond., M.R.C.S. Eng. Prof.
Pandit, M. K., M.B., B.S. Bom., L.M. Rot., F.R.C.S. Ed. Extra Lectr.

Midwifery, Gynæcology and Diseases of Infancy

Borgaonker, V. G., M.B., B.S. Bom., L.M. Dub., M.R.C.S. Eng., L.R.C.P. Lond. Prof.

Ophthalmology

Rahim, S. A., B.A., M.B., B.S. Bom., D.O. Lond. Pt.-time Lectr.

Pathology and Bacteriology

..... Prof.
Nawaz, M. S., M.B., B.S. Panj. (on leave) Reader.
Ali, M. Nusrat, M.B., B.S. Lucknow Actg. Reader.
Rao, V. Yeshwant, L.C.P. & S. Bom. Actg. Lectr.

Pharmacology and Materia Medica

Hardikar, S. W., M.D. Edin., M.R.C.P. Prof.
Khan, Fazle Karim, M.B., B.S. Lucknow Reader.
Muhiuddin, M. G., M.Sc. Alig. Pharmaceutical Chemist.

Physiology

Rahman, S. A., M.B., Ch.B., D.T.M. & H. Edin. Prof.
Abhyankar, R. N., M.B., B.S. Bom. Reader.
Zaidi, M., M.A., M.B., B.S. Lectr.

Surgery [Pt.-time Prof.

Husain, K., M.B., Ch.B. Edin.
Moholkar, V. S., M.B., B.S. Bom., F.R.C.S. Edin. Pt.-time Lectr.

Engineering College

Principal—S. P. Raju, B.A. Madr., B.E. Bom., Dr.Ing. Munich.

Accounts and P.W.D. Procedure

Sayeed, Mudh. Abdul Aziz. Pt.-time Lectr.

Architecture and Town Planning

Ali, Syed A., A.R.I.B.A. Pt.-time Lectr.

Drawing

Hafizullah, M., B.Sc. Alig., B.Sc. (Eng.) Rang. Reader.

Engineering, Civil

Sowdagar, A. S., B.E. Bom., A.M.I.E., M.R.S.I. Reader.

Engineering, Electrical

Qadir, Syed Abdul, B.Sc. Madr. and Manc. Lectr.

Engineering, Mechanical

Ansari, Ziauddin, B.Sc. Manc., M.A. Reader.

Geology

Abbas, S. M., B.Sc. Panj. Reader.

Hydraulics

Raju, S. P., B.A. Mad., B.E. Bom., Dr.Ing. Munich Prof.

Irrigation

Yunus, S. M., B.A. Alig., B.Sc. Manc. Pt.-time Lectr.

Railway Engineering

Alam, M., B.A., B.Sc. Manc. Pt.-time Lectr.

Sanitary Engineering

Ali, W., B.Sc. Pt.-time Lectr.

Surveying

Ghosh, P. K., M.A. Camb., B.Sc. Calc. Reader.

Teachers' Training College

Principal—Mirza, M. Sajjad, M.A. Camb. *Readers*—Ali, M. S., B.A. Panj., B.T. Dac.; Khan, M. A. A., M.A. Delhi, M.Ed. Leeds. Lecturer—Shenderkar, D. D., B.A. Bom., B.T. Dac., Ph.D. Lond.

Women's College

Principal—Miss Amina Pope, M.A., D.Litt. All., L.R.A.M. Lond. Readers: Mrs. C. Gibbs, B.A., Mys. (*Hist.*); Miss L. Naidu, B.A. Ox. (*English*). Lecturers: Mrs. Douglas Pulleyne; Mrs. Ruqayya Begum, B.A. Camb. (*Hist.*); Mrs. Rahab Khanam (*Persian*); Mrs. Sundaram, B.Sc. Alld. (*Science*); Mrs. Jafari Begum (*Urdu and Theol.*); Miss E. Plowman, B.A. (*Physics*); Mrs. Jehan Banu Begum, B.A. (*Urdu*); Miss Salamatunnisa Begum, B.A. (*Econ.*). 13 Part-time Lecturers.

GENERAL INFORMATION

The University was established by a Firman (Order) of H.E.H. the Nizam in April 1917. Work began in Aug. 1919, with the opening of the University College. A Bureau of Translation was established in 1917 to provide text-books in Urdu, which is the medium of instruction. The executive government of the Univ. is in the hands of a Council consisting of 11 members, exclusive of Principals of Colleges. The organization of instruction rests with the Faculties and the Senate, which consists of 70 members, including the Council, Univ. Profs. and representatives of graduates and Faculties. The Univ. is entirely financed by the State and the budget for the year 1938–39 is Rs. (Hy.) 2,449,250.

Library. 43,240 vols., 2244 MSS. The Staff have also access to the large Asafia Library.

Bureau of Translation. Curator, M. Elias Burney, M.A., LL.B. All.; 20 Translators. Books published, 250; under translation, 106; in Press, 66.

Faculties. Arts, Science, Law, Islamic Theology, Medicine, Engineering, Education.

Terms. June 21 to Sept. 18, Sept. 21 to Dec. 16; and January 6 to March 31.

Admission. The Univ. holds a Matriculation examn., but the Matricn.

examns. of other Univs., the Oxford and Cambridge School Examns. and the High School Leaving Certificates awarded by Boards of Secondary Education in India are accepted as equivalent.

DEGREES. B.A. and M.A. in the Faculties of Arts and Theology, LL.B., B.Sc., M.Sc., B.E., M.B., B.S.

B.A. (Arts and Theol.), B.Sc., 4 yrs., with an Intermed. examn. at the end of 2 yrs. The Intermed. examns. of other Indian Univs. are accepted as equivalent. B.E., 4 yrs., including 1 yr. practical. M.B., B.S., 5 yrs. M.A. (Arts and Theol.), M.Sc., LL.B., each 2 yrs. after graduation. Diploma in Education course, 1 yr.

FEES. Interm.—Rs. 60 p.a.; B.A. and B.Sc.—Rs. 80 p.a.; M.A. and M.Sc. —Rs. 100 p.a.; LL.B.—Rs. 80 p.a. M.B., B.S.—Rs. 100 p.a. B.E.—Rs. 100 p.a. Dipl. in Ed.—Rs. 100 p.a.

RESIDENCE. University Hostels recently constructed, providing accommodation for 400 students. Cost of living about Rs. 250 p.a.

PUBLICATIONS. *Calendar*; *Annual Administration Reports*; *Research Journals*; *Text-books*.

THE YEAR 1937–38

EXTRA-MURAL WORK. Extension lectures continue to be given.

RETIREMENTS. C. N. Joshi (Marathi); Mrs. Afsar Sultana Begum (Urdu); Mrs. Naushaba Khatun (Arabic).

HONORARY DEGREES. *LL.D.*—Maharaja Sir Kishan Pershad Bahadur; Sir Tej Bahadur Sapru. *D.Litt.*—Sir Rabindranath Tagore; Sir Mohammed Igbal.

STUDENTS. Full-time: 1980, including 268 graduates. Part-time: 8, Research, 8.

DEGREES. B.A. (Theology), 3; M.A. (Theology), 3; B.A. (Arts), 62; M.A. (Arts), 2; LL.B., 17; B.Sc., 38; M.Sc., 7; M.B., B.S., 11; B.E., 7; Dip. in Edn. 10.

THE UNIVERSITY OF THE PANJAB, LAHORE

Founded 1882

PATRON—H.E. THE GOVERNOR-GENERAL OF INDIA.

CHANCELLOR—H.E. THE GOVERNOR OF THE PANJAB.

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—B. H. DOBSON, C.I.E., C.B.E., I.C.S. (Financial Commissioner, Revenue, Panjab, Lahore).

REGISTRAR—ISHWAR DAS, RAI BAHADUR, M.A., LL.B.

TEACHING STAFF

[(U.)=maintained entirely by the Univ.]

Dean of University Instruction—S. S. BHATNAGAR, O.B.E., D.Sc., F.Inst.P.

Arabic

Shafi, M. Mohd., M.A. Camb. and Panj. Prof. (U.).
Sadr-ud-Din, Mohd., M.A. D.Litt. Lectr.
Khan, Rasul Lectr.
Kuraishi, B. A., Ph.D. Berlin, M.A. Lectr.
Bakhsh, Karim, M.A. (Seminar).

Astronomy

Lall, P. Samuels, M.A., B.Sc., F.R.A.S. Reader.
Lal, Sardari, B.Sc., B.T. Demr.

Botany

Chaudhuri, H., D.Sc., Ph.D., D.I.C.
Reader (U.), and Head of Dept.

Lecturers

Sethi, M. C., M.Sc.
Ghose, S. L., Ph.D. Camb., M.Sc., F.L.S. (Director, Univ. Botanical Laboratory).
Singh, Charan, M.Sc.
Singh, Jagjiwan, M.Sc., Ph.D.

Demonstrators

Chopra, R. S., M.Sc. (U.).
Mehra, P. N., M.Sc. (U.).
Vasisht, B. R., M.Sc. (U.).

Chemistry, Physical

Bhatnagar, S. S., O.B.E., D.Sc., F.Inst.P. (Director of Labs.) Prof. (U.).
Dunnicliff, H. B., C.I.E., M.A. Camb., Sc.D. Dub., F.I.C., I.E.S. Prof.
Speers, P. Carter, M.Sc. Princeton Prof.
Ray, J. N., Ph.D., D.Sc., F.I.C. Prof. (U.).
Yajnik, N. A., M.A., D.Sc. Bom., A.I.C. Reader.
Datta, G. L., M.A. Calc., Ph.D. Göttingen Lectr.
Singh, Narinjan, M.Sc. Lectr.
Singh, Balwant, D.Sc. Lectr.
Silooja, S. Santokh, M.Sc. (Org. C.) Demr. (U.).
Kapur, Pyare Lal, M.Sc. (Inorg. C.) Demr. (U.).
Kapur, A. N., M.Sc. (Phys. C.) Demr. (U.).

Chemistry, Technical

Speers, P. Carter, M.Sc. Prof.

Lecturers

Bhalla, Mahesh Datt, M.Sc.
Joshi, M. L., M.Sc.
Ahmed, Nzeer, M.Sc.
Kohli, S. J., Ph.D.
Principal, Maclagan Engin. Coll.
Principal, Hailey Coll. of Com.

Economics

Jain, L. C., M.A., LL.B., Ph.D., D.Sc. Econ. Lond. Prof. (U.).

Lecturers

Lucas, Rev. E. D., M.A., D.D., Ph.D. Columbia.
Sondhi, G. D., B.A. Camb., M.A., I.E.S.
Parshad, I. Durga, Ph.D. Lond., M.A.
Bali, A. N., M.A. Calc.
Akhtar, Hamid, M.A., Ph.D.
Madan, B. K., M.A. (U.).
Sexena, H. C., M.A. Temp. Lectr.

English (for Hons. School in Science Subjects)

Sharma, D. C., M.A. Calc. Pt.-time Lectr.

German

Kuraishi, B. A., Ph.D. Berl., M.A. Pt.-time Lectr.

History

*Bruce, J. F., M.A. Ox. and Syd. Prof. (U.).

Lecturers

*Wilson, Rev. R. L., M.A. Chicago (on leave).
*Khanna, A. R., M.A.
Sharma, Sri Ram, M.A.
Kuraishi, B. A., Ph.D. Berlin, M.A.
Ball, U. N., M.A.
Sethi, R. R., M.A. (U.).

Honours School (additional to those asterisked above).

Lecturers

Chacko, C. J., M.A., Ph.D.
Gulshanrai, B. A., LL.B.
Thomas, J.W., B.Com., B.Sc. Lond.
Sharma, Sri Ram, M.A.
Sethi, R. R., M.A. (U.).

Mathematics

Rao, C. V. H., M.A. Camb. Prof. (U.).

Lecturers

Raj, Hem, M.A.
Lall, P. Samuels (v. Astron.).
Chowla, S., M.A., Ph.D.
Raj, Mul, M.A.
Hamid, Abdul, M.A. Alig. and Calc.
Chandra, Vidya, M.A.
Ram, Sita, M.A.
Mitra, K. K., M.A., Ph.D. Temp. Lectr. (U.).

Persian

Iqbal, M. Mohd., M.A. All., Ph.D. Camb. Prof. (U.).

Lecturers

Maitra, K. M., M.A. Calc.
Qazi-Fazl-i-Haq, K. S., M.A.
Bilgrami, A. H. S., Maulvi Sayid.

Political Science

Sondhi, G. D., M.A., I.E.S. (Head of Dept. to 8.11.40).
Jain, L. C., M.A., LL.B., Ph.D., D.Sc.Econ. Lond. Prof. (U.).

Lecturers

Chacko, C. J., M.A., Ph.D.
Sharma, Sri Ram, M.A.
Sethi, L. R., M.A.
Khosla, J. N., Ph.D. Col., M.A. (U.).

Sanskrit

Sarup, Lakshman, D.Phil. Ox., M.A., O.A. Prof. (U.).

Lecturers

Singh, G., M.A., LL.B.
Sirkar, M. K., M.A. Calc. and Dacca
Aggarwal, J. N., M.A.
Raghuvira, Ph.D. Lond., D.Litt. et Phil. Utrecht, M.A.
Shankar, G., B.Litt. Ox., M.A.

Zoology

Matthai, G., M.A., Sc.D. Camb., F.L.S., I.E.S. Prof.

Kumar, Anand, M.A. Camb.. Reader (U.).
Nath, V., Ph.D. Camb., M.Sc., F.R.M.S. Lectr.
Arora, G. L., M.Sc. Demr. (U.).
Najmud-Din, M.Sc. Demr. (U.).
Ahmad, Nazir, M.Sc. Demr. (U.).

Honours School in Physics

Head of Dept. and Director of Laboratory—Prof. J. B. Seth, M.A. Camb., I.E.S. (to 8.11.40).

Lectrs.

Anand, B. M., M.Sc. (U.).
Benade, J. M., M.Sc.
Datta, G. L., M.Sc., Ph.D.
Chhabra, B. D., M.Sc.
Kichlu, P. K., D.Sc.
Chaudhri, R. M., M.Sc., Ph.D.
Ram, Mela, M.Sc.
Chand, Faqir, M.A., Temp. (U.).

University Colleges

Oriental College, Lahore. Principal and Prof. of Arabic—M. Muhammad Shafi, M.A. Camb. and Panj. Vice-Principal and Prof. of Sanskrit—Lakshman Sarup, M.A., D.Phil. Ox., O.A. M.A. courses in Arabic, Persian and Sanskrit; M.O.L. in all subjects. 17 other Teachers.

Law College, Lahore. Principal—C. L. Anand, LL.B. Lond., M.A. Whole-time Law Readers—Rahim Bakhsh, M.A., LL.B.; C. L. Mathur, M.A., LL.B. Camb., B.Sc.; D. R. Mahajan, M.A., LL.B.; A. Q. Malik, B.A. All. 3 Part-time Law Readers, 17 Part-time Lecturers. All examns. in Law.

The Hailey College of Commerce. Principal—J. W. Thomas, B.Com., B.Sc. Lond. Vice-Principal—Krishan Datta, B.A. Panj. and Camb., B.Com. Lond. Courses for the B.Com. 6 Profs.

AFFILIATED COLLEGES RECOGNIZED IN DEGREE OR DIPLOMA COURSES

B.A., M.A., etc.—A., As., B., C., E., Ec., F., Geog., G., H., Hi., M., Mil., Min., P., Pb., Ph., Pol. Sc., Ps., Psych., S., Tech. Ch., U., Z. Affiliated up to B.A., M.A., etc., in Arabic, Astronomy, Botany, Chemistry, English, Economics, French, Geography, Geology, History, Hindi, Maths., Military Science, Mineral., Persian, Panjabi, Philos., Pol. Science, Physics, Psychol., Sanskrit, Technical Chemistry, Urdu and Zoology.

Agriculture

Amritsar, *Khalsa College.* B.Sc.(Ag.). Prof. of Ag.—Indar Singh, B.Sc. Wales. 4 Assistants.

Lyallpur, *Agricultural College* (Govt.). B.Sc.(Ag.), M.Sc.(Ag.). Research Depts. in Ag., Bot., Chem., Zool. and Entomol. Principal, and Prof. of Entomol. and Entomologist to Govt. Panjab—Khan Bahadur M. Afzal Husain, M.A. Camb., M.Sc., I.A.S. 38 other Teachers.

Peshawar. *Islamia College.* B.Sc.(Ag.). Prof. of Ag.—Mian Mushtaq Ahmad, B.Sc.(Ag.) Edin. 5 Assistants.

Arts and Science

Amritsar, *Hindu Sabha College.* B.A.—E., Ec., H., Hi., M. (A and B Courses), P., Ph., Pol.Sc., S., U. Principal—K. L. Bhatia, M.A., B.Sc. Vice-Principal—Arjan Natha Mattu, M.A. 16 other Teachers.

AMRITSAR, *Khalsa College.* M.A.—E., Ec., H., M. Large Collegiate Schoo attached. Residential. Principal—Bhai Jodh Singh, M.A. 43 Teachers.

AMRITSAR, *M.A.O. College.* B.A.—A., E., Ec., H., M., P., Ph., Pol.Sc., U. Principal—M. D. Taseer, M.A., Ph.D. Camb. 11 other Teachers.

BAHAWALPUR, *Sadiq-Egerton College.* B.A.—A., E., Ec., H., Hi., M. (A and B Courses), P., Ph., S., U. Principal—Lt.-Col. Khan Bahadur Zia ud Din Ahmad, M.A., LL.B., R.I.H., Principal and Prof. of English. Vice-Principal and Prof. of *History*—M. A. Majid, M.A. 14 other Teachers.

DERA ISMAIL KHAN, *V.B. College.* B.A.—E., Ec., H., Hi., M. (A Course), P., S., U. Principal—K. L. Khanna, M.A. 11 Teachers.

FEROZEPUR, *Ramsukh Das College.* B.A.—A., E., Ec., H., M., P., Pb., Ph. S., Hi., U. Residential. Principal—P. V. Kanal, M.A., LL.B. Bomb. 12 other Teachers.

JAMMU, *Prince of Wales College.* B.A.—A., C., E., Ec., G., H., M., P., Ps., S., Min., Ph., Hi., Pb., U.; M.A.—Ec.; M.Sc.—G. Principal, and Prof. of *Physics*—Sewa Ram Suri, M.Sc. 19 other Teachers.

JULLUNDUR, *D.A.V. College.* B.A.—C., E., Ec., H., Hi., M. (A and B Courses), P., Ph., Pol. Sc., Ps., S., U. Principal—Mehr Chand, B.A. 21 Teachers.

LAHORE, *College for Women.* B.A.—A., C., E., H., Hi., M., P., Pb., Ph., S., U. B.Sc.—E., C., B. Principal—Miss C. L. H. Geary, M.A. Lond. 16 Teachers.

LAHORE, *Dayanand Anglo-Vedic College.* M.A.—E., Ec., H., M., Pol. Sc., S. Principal—L. Mehr Chand, M.Sc. 33 Teachers.

LAHORE, *Dyal Singh College.* M.A.—Ec., H., M., P., Ph., Pol. Sc. Principal —Hem Raj, M.A. 31 Teachers.

LAHORE, *Forman Christian College.* M.A.—E., Ec., H., M., Pol. Sci., Psych.; M.Sc.—C., M. Supported and controlled through Board of Directors by Panjab Mission of American Presb. and Amer. Meth. Epis. Churches. Principal —S. K. Datta, M.B., Ch.B. Edin., B.A. Vice-Prin.—Rev. E. D. Lucas, M.A., Ph.D., D.D. Columbia. Director, *Dept. Tech. Chem.*—P. C. Speers, M.Sc. Princeton. 49 Teachers.

LAHORE, *Government College.* M.A.—A., C., E., Ec., H., M., P., Ph., Pol. Sc., Ps., Psych., S.; M.Sc.—B., C., M., Ps., Z. Principal and Prof. of *Chemistry*—H. B. Dunnicliff, C.I.E., M.A. Camb., Sc.D. Dub., F.I.C., I.E.S. Vice-Prin. and Prof. of *Econ. and Polit. Sci.*—G. D. Sondhi, B.A. Camb., M.A., I.E.S. Profs.: *Bot.*—S. L. Ghose, M.Sc., Ph.D., F.L.S; *English*—E. C. Dickinson, M.A. Ox.; *Maths.*—S. Chawla, M.A., Ph.D. Camb.; *Zool.*—G. Matthai, M.A., Sc.D. Camb., F.L.S., I.E.S.; *Philos.*—G. C. Chatterji, B.A. Camb., M.A., I.E.S.; *Physics*—J. B. Seth, M.A. Camb., B.Sc. All., I.E.S. 40 other Teachers.

LAHORE, *Islamia College.* M.A.—A., Ec., H., M., P., Ph., Pol. Sc. For Muhammadans. Offg. Principal—M. A. Ghani, M.A. 32 other Teachers.

LAHORE, *Kinnaird College for Women.* B.A.—As., E., Ec., H., Hi., M., P., Pb., Ph., Pol. Sc., S., U. Principal—Miss I. T. McNair, M.A. Glas. Vice-Principal and Lectr. in *English*—Miss W. H. Porter, M.A. Wooster, U.S.A. 13 other Teachers.

LAHORE, *Sanatana Dharma College.* M.A.—Ec., S. Principal and Prof. of *Engl.*—P. N. Moulik, M.A., B.L. Calc. 31 other Teachers.

LUDHIANA, *Government College.* B.A.—A., E., Ec., H., Hi., M., P., Pb.,

Ph., Ps., Pol. Sc., S., U. (U. and Hi. for girls in place of Classical Langs.). Principal and Prof. of *Hist.*—A. C. C. Hervey, M.A. Camb., I.E.S. 26 Teachers.

LYALLPUR, *Government College.* B.A.—A., E., Ec., H., Hi., M. (A and B Courses), Mil. Sc., P., Pb., Ph., Ps., S., U. Principal and Prof. of *Maths.*—Sri Kishan Kapur, M.A., B.Sc. 26 other Teachers.

MULTAN, *Emerson College.* B.A.—A., E., Ec., Geog., H., Hi., M. (A and B Courses), P., Ph., Ps., S., U. Principal—Khan Sahib M. M. Ibrahim, M.A. 21 Teachers.

PATIALA, *Mohindra College* (State). No fees. M.A.—M., Ph. Principal and Prof. of *Econ.*—B. N. Khosla, B.A. Camb., M.A. 21 other Teachers.

PESHAWAR, *Edwardes College.* B.A.—A., E., Ec., H., Hi., M., P., Ph., S., U. Principal and Prof. of *Hist.*—A. M. Dalaya, B.A. Ox., LL.B. Bom. 9 other Teachers.

PESHAWAR, *Islamia College.* For Muhammadans. Residential. College High School attached. M.A.—E., M., P.; B.Sc.—B., C., E., Ps., Z. Principal and Prof. of *English*—R. L. Holdsworth, M.A. Ox. 33 other Teachers.

RAWALPINDI, *D.A.V. College.* B.A.—E., Ec., H., Hi., M., P., Pb., Ph., Pol. Sc., S., U. Principal—Gian Chand, M.A. 18 other Teachers.

RAWALPINDI, *Gordon College.* B.A.—A., E., Ec., H., Hi., M., P., Pb., Ph., Pol. Sc., S., U. B.Sc.—As., B., C., E., Ps. Principal—R. R. Stewart, M.A., Ph.D. Columbia. Vice-Prin.—W. J. Downs, M.Sc. Pittsburgh. 26 Teachers.

SHAHPUR, *de Montmorency College.* B.A.—A., E., Ec., H., Hi., M., P., Pb., Ph., S., U. Principal—U. Kramet, M.A. 17 Teachers.

SIALKOT, *Murray College.* Maintained by Panjab Mission of Church of Scotland. B.A.—A., E., Ec., H., Hi., M. (A and B Courses), P., Pb., Ph., Pol. Sc., S., U. Principal—Rev. J. Garrett, M.A. Glas. Vice-Prin.—Rev. W. Lillie, M.A. Aberd. 19 Teachers.

SRINAGAR, *Sri Pratap College* (State). M.A.—M., Ph., S. Principal—M. Mohd. Ibrahim, M.A., M.O.L. 23 Teachers.

Engineering

MOGHALPURA, *Maclagan Engin. College.* B.Sc. (Eng.). Principal and Univ. Teacher in *Eng.*—P. R. Bence-Jones, M.C., M.A., M.I.C.E., M.I.Mech.E. Depts. of Sc., Mech. and Elec. Engineering with 23 Teachers.

Medical

LAHORE, *K.E. Medical College* (Govt.). M.Sc.—Physiol., M.B., B.S., M.D., M.S., B.D.S., D.L.O. Principal and Prof. of *Surgery*—Lt.-Col. P. B. Bharucha, O.B.E., D.S.O., L.M. & S. Bom., L.R.C.P. Lond., F.R.C.S. Eng., I.M.S. Other Profs. and Lecturers: *Anat.*—Capt. B. S. Nat, M.D. St. And., F.R.C.S., I.M.S. *Dentistry*—C. D. Marshall Day, M.S., D.M.D., B.D.S. (Principal, de Montmorency Coll. of Dentistry, Lahore); *Forensic Med.*—Lt.-Col. W. Ross Stewart, C.I.E., I.M.S., Civ. Surgeon, Lahore; *Hygiene*—Khan Badahur A. H. Butt, M.B., B.S., D.P.H. Lond., D.T.M. & H. Eng. (Asst. Director of Public Health, Panjab); *Medicine*—Lt.-Col. Amir Chand, M.B., B.S., F.R.C.P. Edin., I.M.S.; *Mental Dis.*—Lt.-Col. C. J. Lodge Patch, M.C., L.R.C.P., L.R.C.S. Edin., L.R.F.P.S. Glas., I.M.S.; *Midwifery and Diseases of Women*—Major S. N. Hayes, F.R.C.S., F.C.O.G., L.R.C.P., I.M.S.; *Path.*—Rai Bahadur Jiwan Lal, M.D., B.S.,; *Clin. Med.*—Major G. F. Taylor, M.A., M.B., B.Ch. Camb., M.R.C.S. Eng., M.R.C.P. Lond., I.M.S.; *Physiology*—Lt.-Col. H. S. Anand, M.B., Ch.B., D.P.H. Edin., I.M.S.; *Surgery*—Lt.-Col. P. B. Bharucha, O.B.E.,

D.S.O., L.M. & S. Bom., L.R.C.P., F.R.C.S., I.M.S.; *Operative Surg.*—Lt.-Col. V. R. Mirajkar, O.B.E., L.M. & S. Bom., L.R.C.P., F.R.C.S., I.M.S.; *Dis. Eye, Ear, and Throat*—Lt.-Col. A. M. Dick, C.B.E., M.B., Ch.B. Edin., L.R.C.P., F.R.C.S., V.H.S., I.M.S.; *Pharmacology and Therapeutics*—Capt. I. Bakhsh, M.D. Lond., M.R.C.P. Lond., M.R.C.S. Eng. 26 other Teachers, including 10 Demonstrators.

NEW DELHI, *Lady Hardinge Medical College for Women.* M.B., B.S. Principal and Lecturer in *Forensic Med.*—Ruth Young, M.B.E., B.Sc., M.B., Ch.B. St. And., W.M.S. Vice-Principal, Joint Med. Supt. and Prof. of *Obstet. and Gynæcol.*—G. Stapleton, M.D., B.S. Lond., M.C.O.G., W.M.S. 12 other Teachers and 4 Lectrs. in Intermed. Science Dept.

Teaching

LAHORE, *Central Training College* (Govt.). B.T. Principal—Khan Bahadur Sheikh Nur Elahi, M.A., I.E.S. Vice-Prin.—M. G. Singh, M.A., P.E.S. 13 Teachers. The Adviser in Physical Education, Panjab, attached to staff.

LAHORE, *Lady Maclagan Training College for Women* (Govt.). B.T. Principal—Miss T. E. M. Wright, B.A. Lond., Dipl. in Teaching. 5 other Teachers.

GENERAL INFORMATION

Established in 1882, the University confined its activities, until 1919, mainly to examinations, the control of affiliated institutions and the provision of instruction in its Oriental and Law Colleges. It has since 1919 undertaken the maintenance of Professors and Readers and co-ordination of higher teaching in other subjects. Honours Schools in Hist., Botany, Zool., Chem. and Physics have been established in Lahore. Post-graduate teaching in Econ., Arabic, Sanskrit, Persian, Maths. and Polit. Sci. has been arranged. Senior teachers in the local colleges, partially relieved of routine work, have supplemented the teaching of Univ. Profs. and Readers. Three improved types of Honours Papers have been instituted in English, Maths., Econ., Philos., Hist., Sanskrit, Arabic, Persian, Physics and Geol.

LIBRARY, 95,779 vols., including MSS. (arranged on Dewey Decimal system). Departmental and Seminar LIBRARIES: Botany, Zoology, History, Economics, and Physics. Chemical LABORATORY. Astronomical OBSERVATORY.

FACULTIES. Oriental, Arts, Law, Med., Sci., Agric., Comm., Engin. and Dentistry.

DEGREES. B.A., M.A., Ph.D., D.Litt.; B.Sc., M.Sc., Ph.D., D.Sc.; B.Sc. (Agr.), M.Sc. (Agr.); LL.B., LL.M., LL.D.; M.B., B.S., M.S., M.D., B.D.S.; B.T.; (in Oriental Learning) B.O.L., M.O.L., Ph.D., D.O.L.; (in Comm.) B.Com., (in Engin.) B.Sc. Eng., M.Sc.Tech.

In the Faculty of Oriental Learning a 2 yrs.' course from Matricn. leads to an Interm. examn., and further courses of 2 yrs., 1 yr. and 2 yrs. to the B.O.L., M.O.L. and D.O.L. successively. Examns. are also held for Proficiency, High Proficiency and Honours in Arabic, Sanskrit and Persian. Honours admit to the Oriental titles: Maulvi Fazil (Arabic), Shastri (Sanskrit) and Munshi Fazil (Persian); and High Proficiency to Maulvi Alim, Visharada and Munshi Alim. Similar examns. are held in Urdu, Hindi, Panjabi and Pashto.

The B.T. is open to anyone who after graduating in any faculty other than the Oriental has undergone a 1 yr. course at an Affiliated Training Coll. or any trained S.A.V. graduate teacher not less than eighteen months after his passing the S.A.V. examn. or any female graduate of the Univ. of the Panjab, admitted by special order of the Senate.

The B.Com. is open to anyone who has passed the Intermed. Examn. of the Panjab University and has taken a 3 yrs.' course.

RECOGNITION OF OTHER INSTITUTIONS. An equivalent examn. of any recognized Univ. may be accepted in lieu of Matricn., Interm. Arts or Science, B.A., B.Sc., B.Sc. (Ag.), B.Com. or LL.B. for the purposes of admission to a higher examn.

SCHOLARSHIPS FOR GRADUATES. Several (from Rs. 20 to Rs. 25 p.m. for 2 yrs.) in Oriental Studies, Arts and Science. A Postgraduate State Scholarship open to graduates of the Univ. between 21-25 yrs. of age for study in a recognized Univ. in the United Kingdom. Candidates must be students of a Coll. in the Panjab affiliated to the Univ. Research studentships tenable for from 2 to 4 yrs. in Oriental Hist., Sanskrit, Pali or Prakrit, Arabic, Panjabi, Science, Physics and Maths.

RESIDENCE. Undergraduates in Lahore Arts Colleges are ordinarily required to reside in College Hostels or in hostels recognized by the Univ.

PUBLICATIONS. *Calendar* (Sept.), Rs. 5-8-0; *University Gazette* (published monthly, Oct. to June), Rs. 4 p.a. *or* annas 8 per copy; 32 books of critical research work in Oriental Classical Langs. published from the Panjab Univ. Oriental Publications Fund; and 22 text-books in English, Classical Langs. and Vernaculars.

THE YEAR 1937–38

NEW DEVELOPMENTS. Standing Cttee. of Academic Council, originally appointed as experimental measure, brought on more permanent footing. Sikh National Coll., Lahore, affiliated for Inter. (Arts and Sci.) and raised to B.A., B.Sc. standard. St. Joseph's Coll., Baramulla, and Shri Atmanand Jain Coll., Ambala City, affiliated for Inter. Examn. De Montmorency Coll. of Dentistry, Lahore, affiliated for B.D.S. Women's Christian Medical Coll., Ludhiana, affiliated for first Prof. examn. for M.B., B.S. Stratford Intermediate Coll. for Women raised to B.A. standard. Edwardes Coll., Peshawar, raised to M.A. standard. Separate Fac. of Dentistry instituted. Regulations amended: (1) to allow candidates who appear in supplementary B.A. and B.Sc. examns. to read for preliminary examn. in Law Class till publication of results; (2) for election of ordinary Fellows by Registered Graduates; (3) for addition of Agric. as elective subject for Inter. Arts Examn.; (4) for substitution of words "Modern Indian Languages" for "Indian Vernaculars"; (5) to make late college students eligible to appear as private candidates in First and Final Examns. in Agric.

DEATHS. Lord Rutherford; K. B. Sheikh Amir Ali; Lt.-Col. R. H. Gott, C.I.E., I.M.S.; H.H. Maharaja Sir Bhupindar Singh; Dr. Sir Mohammad Iqbal; W. T. Wright.

STUDENTS. Full-time: 18,968.

DEGREES. B.A., 2157; B.A. Hons., 128; B.O.L., 2; M.A., 277; M.A. (Honours School), 3; B.Com., 32; B.T., 156; LL.B., 131; LL.M., 1; B.Sc., 195; B.Sc. (Honours School), 60; M.Sc., 2; M.Sc. (Hons. School), 13; B.Sc. Engin. (Mechanical—3, Electrical—3); M.Sc.Tech., 13; B.Sc.Agr., 31; M.Sc.Agr., 1; M.B., B.S., 70; Ph.D., 2.

PATNA UNIVERSITY

Founded 1917

CHANCELLOR—H.E. THE GOVERNOR OF BIHAR AND ORISSA.
VICE-CHANCELLOR—SACHCHIDANANDA SINHA, D.Litt., M.L.A.
REGISTRAR—JAMUNA PRASAD, M.A. Calc., B.A., M.Sc. Camb.
ASST. REGISTRAR—KHAN BAHADUR M. A. HOSAIN, M.A., Alld.

ADMITTED COLLEGES

BANKIPUR (PATNA), *Bihar College of Engineering.* B.C.E. Principal—J. Tullis, B.Sc. St. And. Profs.: B. Sanjana, B.Sc. Glas., I.C.E. Bom. (*Civil Eng.*); B. Prasad, M.Sc., B.L. Calc., B.Sc. Tech. Manc. 15 other Profs. and Lectrs.

BANKIPUR (PATNA), *Bihar National College.* B.A., B.Sc. Principal, and Prof. of *English*—S. M. Moinul Haq, O.B.E., M.A. Other Profs.: *Chem.*—B. K. Chowdhry, M.Sc. *English*—C. T. Mitra, M.A. Calc. *History*—K. M. Sinha, M.A. *Maths.*—W. C. Dutta, M.A. Calc. *Persian*—A. Saiyid, M.A. *Philos.*—S. N. Roy, M.A. Calc. *Physics*—S. N. Roy, M.Sc. Calc. *Sanskrit*—S. N. Bhattacharayya, M.A. 25 other Profs., Lectrs., and Demrs.

BANKIPUR (PATNA), *Law College.* B.L. Principal—S. S. Alam, M.A., LL.B. Camb. Vice-Principal—B. K. Sinha, B.A., B.L. Profs.: A. N. Lal, M.A., B.L.; S. M. Abdul Moin, M.A., B.L.; Syed H. R. Kazimi, B.A., B.L.; Syed Hasan, B.A., B.L.; Sarjoo Prasad, M.A., B.L.; S. Amul Varis, M.A. Camb.

BANKIPUR (PATNA), *Patna College.* M.A. Principal—J. S. Armour, M.A. Glas., B.A. Ox. Professors: *Econ.*—Gyan Chand, M.A., Ph.D. *Engl.*—J. L. Hill, M.A. Ox. *History*—S. C. Sarkar, M.A. Calc., Ph.D. Ox.; Y. J. Taraporevala, B.A. Camb. *Maths.*—H. N. Ganguli, M.A. Calc. *Philos.*—C. C. Sinha, M.A. *Sanskrit*—A. P. Banerji Shastri, Ph.D. Ox. 34 other Profs. and Lectrs.

BANKIPUR (PATNA), *Prince of Wales' Medical College.* M.B., B.S. Principal—Lt.-Col. G. H. Mahony, B.Sc., M.D., M.Ch., B.A.O., F.R.C.S. Edin., M.C.O.G. Lond., I.M.S. Profs.: *Anatomy*—S. Pujari, M.B. Calc. *Biology*—S. S. Chaudhuri, M.A. All., M.Sc. Luck. *Hygiene*—S. M. Rahman, M.B., M.R.C.S., D.P.H. *Medicine*—Rai Bahadur T. N. Banerji, M.B. Calc., M.R.C.P. Lond. and Edin., D.T.M. & H. Lond. *Obstetric Medicine*—Rai Sahib A. N. Sarkar, M.B. *Pathology*—Lt.-Col. A. N. Bose, M.B.E., M.B. Calc., M.R.C.P., D.T.M. & H. Camb., M.D. Laus., F.R.C.P.E., I.M.S.; Capt. U. M. Gupta, M.B., M.R.C.P.E., D.T.M. *Physiology*—B. Narayana, M.Sc., M.B. Cal., Ph.D. Edin. *Surgery*—D. P. Bhargava, O.B.E., F.R.C.S., D.O.M.S., I.M.S.

BANKIPUR (PATNA), *Science College.* M.Sc. Principal—A. S. Khan, M.Sc. Manc. Professors: *Maths.*—D. N. Sen, M.Sc. Calc., B.A. Camb.; P. N. Das Gupta, M.Sc. Calc., Ph.D. St. And.; P. N. De, M.Sc. Calc., M.A. Lond. *Chem.*—B. K. Singh, M.A. Camb., Sc.D. Dub., F.I.C.; R. C. Roy, D.Sc. Lond., F.I.C.; C. B. Roy, M.A. Calc.; P. B. Ganguli, D.Sc. Lond. *Physics*—K. Prasad, B.A. Camb., M.Sc. Calc.; K. Dayal, M.Sc. Calc.; Rai Sahib K. N. Banerji, M.Sc. Calc.; M. M. Sen Gupta, M.Sc. Calc., Ph.D. Edin. *Mathe-*

matical Physics—S. P. Prashad, B.A. Camb. Asst. Professor in *English*—K. N. Misra, B.A. Lond., M.A. 31 other Profs., Lectrs., and Demrs.

BHAGALPUR, *Tej Narayan Jubilee College.* B.A., B.Sc. Principal—Hari Chand, D. ès L. Profs.: *Eng.*—K. B. Gupta, M.A. Calc. *Chem.*—H. L. Das Gupta, M.A. *History*—N. M. Acharya, M.A.; K. K. Bose, M.A. *Maths.*—N. D. Banerji, M.A. Calc. *Philos.*—J. C. Sen Mazumdar, M.A. Calc. *Physics*—S. N. Banerjee, M.Sc. *Pol. Econ.*—T. N. Basu, M.A. *Sansk.*—K. C. Chakravarti, M.A. 24 other Profs., Lectrs., and Demrs.

CUTTACK, *Ravenshaw College.* M.A., B.Sc., B.L. Principal—P. K. Parija, M.A. Camb. Profs.: *Engl.*—N. Niyogi, M.A. Calc.; Krutibas Samantarai, M.A. Calc. *Botany*—D. B. Mukherji, M.A. Calc. *Chem.*—B. Prasad, B.Sc. Lond. *Econs.*—S. C. Bardhan, M.A. *Hist.*—N. K. Sanyal, M.A. Calc.; Rai Sahib N. C. Banerji, M.A. Calc. *Law*—J. N. Banerjee, B.A., LL.B. *Maths.*—H. K. Das, M.A. Calc. *Philos.*—B. B. Roy, M.A. Calc. *Physics*—N. Misra, M.Sc. Calc. *Sanskrit and Oriya*—Rai Sahib A. Mahanti, M.A. 22 other Profs., Lectrs., and Demrs.

CUTTACK, *Training College.* Diploma in Education. Principal—M. C. Pradhan, M.A., B.L. Calc., Dip. Ed. Pat. and Edin. Asst. Prof.—S. C. Mahapatra, M.A., B.L., Dip. Ed. Pat. and T.C.D.

HAZARIBAGH, *St. Columba's College.* B.A. Principal, and Prof. of *Philos.*—A. F. Markham, M.A. Ox. Other Profs.: *Eng.*—T. H. Mukharji, M.A. Dacca. *Chem.*—H. C. Mukharji, M.A. *Econ.*—S. K. Bose, M.A. *History*—J. N. Maitra, M.A. *Maths.*—R. N. Mukherji, M.Sc.; C. C. Rai Chaudhuri, B.A. *Pers.*—Md. Muslim, M.A., M.O.L. *Philos.*—K. C. Varughese, M.A. Calc., B.D. Serampore. *Physics*—V. C. Varughese, M.A. Madr. 10 other Profs. and Lectrs.

MUZAFFARPUR, *Greer Bhumihar Brahman College.* B.A., B.Sc. Principal—A. T. Mukerjue, M.A. Calc. Profs.: *History*—S. Basu, M.A. Calc.; A. Sen, M.A. Calc. *Arabic and Pers.*—S. A. Majid. *Chem.*—Rai Sahib R. K. Basu, M.A. Calc. *Econ.*—D. P. Srivastav, M.A. *Engl.*—Kishori Prashad Saiha, M.A. Camb.; G. H. Sinha, M.A. Calc.; B. Prashad, M.A. Calc. *Maths.*—K. P. Das, M.Sc. *Philos.*—J. K. Sarkar, M.A., Ph.D. *Physics*—R. C. Sen, M.A. *Sansk.*—R. Pande, M.A. 15 other Profs., Lectrs., and Demrs.

PATNA, *Training College.* B.Ed. Principal—T. R. Spiller, M.A. Aberd. Profs.: Rai Sahib J. N. Ghosh, M.Sc., B.T.; N. C. Chatterji, M.A. Calc., Dip. Ed.; D. Prasad, B.A., Dip.Ed. Bristol; T. Prasad, M.A., B.Ed., L.C.P., Dip. in Phon. Lond.

GENERAL INFORMATION

Founded Oct. 1, 1917. Most of the teaching is conducted in the "admitted" Colleges, v. *supra.*

LIBRARY, 25,000 vols.

FACULTIES. Arts, Science, Educn., Law, Engineering, Medicine.

DEGREES. B.A., M.A., Ph.D., D.Lit., B.Sc., M.Sc., D.Sc., M.Ed., B.L., M.L., D.L., B.E., M.B., B.S., M.S., B.O.L., M.O.L., Dip.Ed.

RECOGNITION of examns. is accorded by Ox., Camb., Lond., Dub., Edin.

RESEARCH SCHOLARSHIPS. Four, one in Arts, two in Science, and one in Medicine respectively. Two are awarded each yr. (value Rs. 75 p.m.), tenable for 2 yrs.

PUBLICATIONS. *Calendar*, Rs. 4 ; *Courses of Studies for each Examination*, as. 6 ; Question Pamphlets (each examn., as. 6) ; *Regns.*, Re. 1 ; *Minutes*, Rs. 2 ; *Matriculation Selections* (Sansk., Re. 1-4, English Prose, Re. 1, Poetry, Re. 1), *Matriculation Persian Course*, Re. 1 ; I.A. *Persian Course*, Re. 1 ; B.A. *Persian Selections*, Re. 1 ; *Readership Lectures* (on a variety of subjects), Nos. 1-36, Annas 8 to Rs. 5 ; *Handbook of General Information*, 8 as. ; *Handbook for Students*, 4 as.

THE YEAR 1937–38

STUDENTS. Full-time : 5898, including 756 graduates.

DEGREES. B.A., 352 ; M.A., 73 ; B.Sc., 83 ; M.Sc., 10 ; B.L., 119 ; M.Ed., 6 ; M.B., B.S., 41 ; B.C.E., 11.

UNIVERSITY OF TRAVANCORE, TRIVANDRUM

Founded 1937

CHANCELLOR—His Highness Sir BALA RAMAVARMA, G.C.I.E., Maharaja of Travaneore.

PRO-CHANCELLOR—Her Highness MAHARANI SETU PARVATIBAI of Travancore.

VICE-CHANCELLOR—SACHIVOTTAMA Sir C. P. RAMASWAMIAIYAR, K.C.I.E., Dewan of Travancore.

PRO-VICE-CHANCELLOR—C. V. CHANDRASEKHARAN, M.A. Ox.

REGISTRAR—P. R. PARAMESWARA PANIKKAR, M.A.

TEACHING STAFF

HEADS OF DEPARTMENTS OF STUDY IN THE UNIVERSITY.

Botany
Koshy, T. K., M.A. Madr., Ph.D. Lond., F.L.S.

Chemistry
Krishnaaiyer, K. R., M.A. Madr.

Education
Narayanantampi, A., B.A., Dip. in Ed. Ox.

English
Sahasranamaiyer, P. G., M.A. Madr.

Fine Arts
Jayaram, Cousins, D.Lit.

History and Economics
Ouwerkerk, Miss L. C. M., M.A. Camb.

Laboratory Technology
Parameswaran, H., M.A. Madr., Ph.D., D.Sc. Lond., F.Inst.P.

Law
Padmanabhapillai, K. P., B.A., LL.B. Camb.

Malayalam
Anantanpillai, P., M.A. Madr.

Marine Biology and Fisheries
John, C. C., M.A. Madr., D.Sc. Lond., D.I.C.

Mathematics
Srinivasan, R., M.A. Madr.

Philosophy
Narasimhaiah, P., M.A., Ph.D. Madr.

Physics
Sivaramakrishnaiyer, V., M.A. Madr.

Research in Applied Sciences
Moudgill, K. L., M.A. Camb., D.Sc. Glas., F.I.C.

Research in Oriental Studies
Gopalamenon, A., M.A. Madr., B.Com. Lond.

Sanskrit

Godavarma, K., M.A. Madr., Ph.D. Lond.

Tamil

Pannirukaiperumalmudaliar, C., M.A. Madr., B.L.

Textile Technology

Padmanabhapillai, N. K., D.I C.

Zoology

Padmanabhaiyer, K. S., M A., L.T., D.Sc. Madr.

COLLEGES MAINTAINED BY THE UNIVERSITY

TRIVANDRUM, *H.H. the Maharaja's College of Science.* Provides Hons. and Pass courses in Maths., and Pass courses in Physics, Chem., Zool. and Bot. Principal—K. L. Moudgill, M.A., D.Sc., F.I.C. 44 other Teachers.

TRIVANDRUM, *H.H. the Maharaja's College of Arts.* Provides Hons. and Pass courses in Hist., Eng. and Malayalam, and Pass courses in Politics, Econ., Philos., Tamil and Sanskrit. Principal—P. G. Sahasranamaiyer, M.A. 34 other Teachers.

TRIVANDRUM, *H.H. the Maharaja's College for Women.* A Second Grade College. Principal—Miss Anna Nidiri, M.A. 20 other Teachers.

TRIVANDRUM, *H.H. the Maharaja's Sanskrit College.* An Oriental College. Principal—K. Godavarma, M.A., Ph.D. Lond. 11 other Teachers.

Professional Colleges

TRIVANDRUM, *H.H. the Maharaja's Training College.* L.T. and Undergraduate Training Course. Principal—A. Narayanantampi, B.A. Ox., Dip. in Ed. 7 other Teachers.

TRIVANDRUM, *H.H. the Maharaja's Law College.* B.L. Principal—K. P. Padmanabhapillai, B.A., LL.B. 5 other Teachers.

COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

First Grade Colleges

ALWAYE, *The Union Christian College.* Provides Pass courses in Maths., Philos., Hist. and Econ. Principal—A. M. Varki, M.A., B.L. 23 other Teachers.

CHANGANACHERRY, *The St. Berchmans' College.* Provides Pass courses in Maths., Bot., Zool. and Econ. Principal—Rev. Fr. Romeo Thomas, T.O.C.D. M.A., L.T. 33 other Teachers.

Second Grade Colleges

KOTTAYAM, *The C.M.S. College.* Principal—Rev. Philip Lea, M.A. 18 other Teachers.

NAGERCOIL, *The Scott Christian College.* Principal—G. W. Trowell, M.Sc. 11 other Teachers.

The University maintains also an Institute of Textile Technology and a School of Arts.

GENERAL INFORMATION

The University of Travancore was established under a Regulation promulgated by H.H. the Maharaja of Travancore on 1st Nov. 1937. The chief aims

of the Univ. are to effect a reorganization of the system of education in the State with a view to the gradual development of technical and technological education, to make greater and more systematic provision for the furtherance of original research in the various branches of Applied Science and to provide for the conservation and promotion of Kerala Art and Culture.

The Senate, consisting of between 60 and 70 members, is the legislative body of the Univ. and has general control over the affairs, concerns and properties of the Univ., subject to the ultimate control of the Government. In addition to the ex-officio members—the Vice-Chancellor, the Pro-Vice-Chancellor, Director of Public Instruction, Deans of Faculties and Principals of Colleges—the Senate includes also representatives of registered graduates and of the two Houses of Legislature and a certain number of members nominated by the Chancellor. The Senate is to be reconstituted every three years. The Syndicate, consisting of 12 members, forms the executive body of the Univ. and the administration of the affairs of the Univ. and the management of the institutions maintained by the Univ. are vested in the Syndicate. The other authorities of the University are the Faculties and the Boards of Studies.

FACULTIES. Arts, Science, Technology, Oriental Studies and Fine Arts, Law, Education.

DEGREES. B.A. and B.Sc. ordinary—2 yrs. after Intermediate; Hons., 3 yrs. Candidates for the M.A. and M.Sc. must undergo prescribed courses of study for 2 yrs. after graduation. The M.Sc. is also awarded to graduates of recognized Univs. on the results of research work over a period of 3 yrs., non-graduates, 4 yrs. The Ph.D. is awarded to Masters of Arts or Science by examination after 3 yrs.' research, and to Masters of Science by research, after 2 yrs.' research. The D.Sc. and D.Litt. are awarded to Doctors of Philosophy after 2 yrs.' research. The B.L. is awarded after 2 yrs. and the L.T. after one yr. of postgraduate study.

The Univ. also confers the following Titles in Oriental Studies: Mahopadhyaya (Sanskrit), Sahityavisharada (Malayalam), Pulavar (Tamil).

DIPLOMAS. Diplomas in Textile Technology and Textile Chemistry, each 3 yrs.

THE YEAR 1937–38

BENEFACTIONS. Rs. 4,40,450.

STUDENTS. Full-time, 3208, including 261 graduates.

THE ROYAL UNIVERSITY OF MALTA

Founded 1769

PATRON—H.M. THE KING.

VISITOR—H.E. THE GOVERNOR OF MALTA.

RECTOR AND CHAIRMAN OF THE COUNCILS—Prof. the Hon. R. V. GALEA, O.B.E., A. & C.E.

SECRETARY AND LIBRARIAN—JOS. L. PACE.

TEACHING STAFF

Anatomy and Histology

Busuttil, R., M.A., M.D. (to 30.9.39) Prof.
Briffa, J., B.Sc., M.D. (from 1.10.39) Prof.
Borg, C., B.Sc., M.D. Asst. Prof.

Archæology [Prof.

Perkins, J. B. Ward, B.A. Ox.

Biology, v. Nat. Hist

Botany

Vella, Salv. L., B.Sc., M.D., D.L.O. (Eng.), F.L.S. Prof.

Chemistry [Prof.

Sultana, A., M.D. (to 30.9.40)
Farrugia, P., B.Sc., M.D. (from 1.10.40) Prof.

Engineering and Architecture

Colombo, J., B.Sc., B.E. & A., A. & C.E. (Archit.) Prof.
Terreni, Capt. Jos., B.E. & A., A. & C.E. (Munic. Engin.) Prof.
Galea, V. R., B.A. Ox., B.Sc., B.E. & A., A. & C.E. (Civil Engin.) Prof.

English Literature and History

Fogarty, O. J., B.A. N.U.I., M.R.S.T. (Eng.) Prof.

Experimental Sciences

Neumann, Z., B.Sc., M.D. Demr.

Italian Literature

Laurenza, V., D.Lit. Naples Prof.

Latin Literature

..... Prof.

Law

Galea, Most Rev. Can. Mgr. E., J.C.D. Gregorian, Rome, B.Lit., D.D. (Canon L.) Prof.
Cremona, F., LL.D. (Comml. L.) Prof.
Vassallo, E. C., M.A., LL.D. (Const. and Internat. L.) (to 30.9 39) Prof.
Buhagiar, W., B.A., B.C.L. Ox., LL.D. (Const. and Internat. L.) (from 1.10.39) Prof.
Caruana, V., B.Lit., LL.D. (Civil L.) Prof.
Randon, L. A., B.A., LL.D. (Crim. L. & Proced.) Prof.
Bonnici, M., LL.D. (Hist. of Legisln. in England and Malta) Prof.
Frendo, P. G., LL.D. (Fiscal Laws, Statistics and Admn.) Prof.

Maltese and Oriental Languages

Aquilina, J., B.A., LL.D. Prof.

Mathematics, Pure and Applied

Appleby, M., M.A. Camb. Prof.

Medicine and Surgery, v. *infra*

Philosophy

Cuschieri, Rev. A., D.D., Ph.D. Gregorian, Rome, O.C. (to 30.9.39) Prof.
Grima, Rev. S., G.C.B., Ph.D., S.Th.D. Rome (from 1.10.39) Prof.

Physics
Borg, S., M.D. Prof.

Physiology
Xuereb, P., B.Sc., M.D. Prof.

Political Economy
Cortis, G., B.Lit., LL.D. Prof.

Theology
Catania, Most Rev. Can. Mgr. L., Ph.D. Gregorian, Rome, B.Lit., B.L. Can., D.D. (Dogm. T.) Prof.
Bonnici, Most Rev. Can. Mgr. C., D.D., B.L. Can. (Moral T.) Prof.
Saydon, Rev. P. P., Lic.S. Script. Gregorian, Rome, B.Lit., B.L. Can., D D. (Holy Script. and Hebrew) Prof.
Bonnici, Rev. Can. A., B.A., B.L. Can., D.D. (Hist. of the Church) Prof.
Thewma-Relf, Rev. Can. J., Lic.S. Script. Gregorian Rome, B.A., B.L. Can., D.D. (Patrology, Liturgy and Christian Archæol.) Prof.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Critien, E. A., M.D. Demr.

Bacteriology, Parasitol., and Path.
Vincenti, R., M.D. Prof.
Glavina, L., M.D. Asst. Prof.

Forensic M. and Toxicology
Hyzler, J., B.Sc., M.D. Prof.

Hygiene and Preventive M.
Bernard, A. V., O.B.E., M.D., D.P.H. Liv., D.T.M. & H. Eng. Prof.

Materia M., Pharmacol., and Therap.
Debono, Jos., B.Sc., M.D., M.R.C.P. Lond. Prof.

Medicine
Ferro, E. H., B.A., M.D. Prof.
Ganado, W., B.Sc., M.D. Asst. Prof.

Mental Diseases
Vassallo, V., M.D. Naples, D.P.M. Eng. Prof.

Midwifery and Gynæcology [Prof.
Ellul, J., B.Sc., M.D., F.C.O.G.
Mattei, S.F., B.Sc., M.D. Asst. Prof.

Ophthalmology
Preziosi, Cont. L., Dip. Ophth. Ox., B.Sc., M.D. Prof.

Pathology, v. Bact. and Pathol.

Surgery
Debono, P. P., M.D., D.P.H. Camb., F.R.C.S. Eng. Prof.
Bonnici, J., B.Sc., M.D. Asst. Prof.

Venereol. and Dermatol.
Curmi, V. M., M.D. Naples Lectr.

Dentistry

Lapira, E., D.D.S., M.F.D.I. Lectr.

GENERAL INFORMATION

Founded in 1769 by Grand-Master Fra Emmanuel Pinto de Fonçeca of the Order of St John under the authority of Pope Clement XIV., the University is lodged in a building erected by the Jesuit Fathers in 1591–93 for a College, whilst its Medical Faculty originated in a School of Anatomy founded in 1674 by Grand-Master Nicolas Cottoner in the Great Hospital of the Order, which accommodated 745 patients. Under Statute of 1935 the Univ. is governed by a General Council consisting of the Rector, six Professors appointed by and representing the six Faculties, and six persons nominated by the Visitor, three

of whom shall be present or past members of the Academic Body or Graduates of the Univ.

LIBRARY, 10,000 vols. A public library maintained in connexion with the Univ. contains over 100,000 vols. and is rich in MSS. and rare editions of great historical interest. MUSEUMS: Nat. Hist. and Archæol. OBSERVATORY, full meteorol. equipment and seismograph. BOTANICAL GARDEN. HOSPITALS, available for Clinics: general (300 beds) and several special; Leper Asylum (80); Mental Diseases (835); aged poor (930).

FACULTIES: Literature, Science, Engineering and Architecture, Theology, Laws, Medicine.

MATRICULATION examn. requires pass in 5 subjects, including English, Maths., Italian or French, and, except for the course of Archit. and Engin., Latin.

DEGREES, ETC. B.A., B.Sc., B.D., Lic.D., B.E. and A., B.Ch.D., M.D., LL.D., D.D. Diplomas of Notary Public, Legal Procurator, Pharmacist and Apothecary, Dental Surgeon, Midwife.

SCHOLARSHIPS FOR GRADUATES. Govt. Travelling Scholarship of £120—awarded every 3 yrs., one each in Theol., Laws, Med. and Engin. The Aubrey Causton Strachan Scholarship of £120—awarded every 6 yrs. in the Faculty of Med. The Bugeja Scholarship of £50—awarded every 3 yrs., one each in Theol., Law and Med. The Lorenzo Gatt Scholarship of £50—awarded every 3 yrs. to the student in Engin. who secures the Govt. Travelling Scholarship. The Francis Gambin Scholarships, awarded every 3 yrs. in Theol., Laws, Med. and Surg., and Engin. and Archit.

PUBLICATION. *Calendar* (Oct.).

THE YEAR 1937–38

STUDENTS. Full-time: 150, including 16 graduates. Part-time: 21.

DEGREES (conferred triennially). 1937—B.A., 6; B.Sc., 18; B.L.Can., 6; B.E. & A., 3; M.D., 14; LL.D., 14; D.D., 7.

DIPLOMAS. Dental Surgeons, 7; Notary Public, 10; Legal Procurator, 1.

UNIVERSITY OF HONG-KONG

Founded 1911

PATRON—H.M. THE KING.
CHANCELLOR—H.E. THE GOVERNOR OF HONG-KONG.
VICE-CHANCELLOR AND PRINCIPAL—D. J. SLOSS, C.B.E., M.A. Liv.
REGISTRAR—W. B. FINNIGAN.
LIBRARIAN—Mrs. M. E. M. RING, M.Sc.

TEACHING STAFF

Accounting & Business Practice
Martin, T. A., A.S.A.A. Pt.-time Lectr.

Anatomy
Shore, L. R., M.C., M.A., M.D. Camb., D.P.H., M.R.C.P. Prof.
Wong, R. J., M.B., Ch.M. Syd. Tutor.
Letsai, Ai, M.B., B.S. Asst. to Prof.
Balean, H., M.D., Ch.B., F.R.C.S., L.R.C.P. Hon. Demr.
Ong, E. H., M.B., B.S. Demr.

Anatomy, Morbid
Begbie, R. S., M.D. Edin. Demr.

Biology
Herklots, G. A. C., Ph.D. Camb., M.Sc. Leeds, F.L.S. Reader.
Sum, Ng Ching, B.Sc. Soochow Demr.

Chemistry [Prof.
Byrne, G. T., M.Sc. Manc., F.I.C.
Hill, R. A., M.Sc. Liv., A.I.C. Lectr.
Lam, Chan Chan Demr.
Haan, Miss Hui Wai, B.A. Demr.

Chinese
Ti-shan, Hsü, M.A. Columbia, B.D. Yenching, B.Litt. Ox. Prof.
Kiam, Ma, M.A. Columb. (Lit.) Lectr.
Po, Chan Kwan, B.A. Lectr. & Tutor.

Commerce [Lectr.
Archer, Kathleen J., B.A. Camb.

Economics and Political Science
Robertson, R., M.A. Edin. Prof.

Education
Forster, L., M.A. Lond. Prof.
Dyer, W. J., M.A., Dip.Ed. Brist. (Method) Pt.-time Lectr.

Engineering, Civil and Mech.
Smith, C. A. Middleton, M.Sc. Birm., M.I.M.E. (Mech. E.), Taikoo Prof.
Fenwick, A. H., B.Sc. Lond. (Civ. E.) Lectr.
Morley, D. W., M.A. Camb. (Mech. E.) Lectr.
Redmond, F. A., B.Sc. Lond., D.I.C., F.G.S. (Civ. E.) Prof.
Boxer, S. V., B.Sc., Dip. Ed. Edin. Lectr.
Yeung, Li Kai, B.Sc. (Mech.E.) Demr.
Pau, Yue Lum, B.Sc. Demr.
Weller, F. C. Workshop Instr.

Engineering, Electrical
Roffey, M. H., D.S.O., M.Sc. McG., M.I.E.E. Prof.
Poh, Koh Nye, B.Sc. Demr.

English
Simpson, R. K. M., M.C., M.A. Edin. Prof.

Lecturers and Tutors

Birch, B. G., M.A. Bristol.
Salter, K. W., B.A., Dip.Ed. Bristol.
Mackenzie, H. L., M.A. Edin.

Ethics [Pt.-time Lectr.
Lewis, Miss M.A., B.A. Ox.

French
Marty, Mme. Pt.-time Lectr.

Geography [Pt.-time Lectr.
Casey, Rev. Gerald, M.A., S.J.

History
France, N. H., M.A. Camb. Reader.

Logic [Pt.-time Lectr.
Reeve, G. W., B.A. Alta.

Mathematics, Pure and Applied
Brown, W., M.A., B.Sc. Glas. Prof.
Faid, Mrs. J. E., B.Sc. Durh. Pt.-time Lectr.

Medicine and Surgery, v. *infra*

Philosophy
. Lectr.

Physics
Faid, W., M.Sc. Durham Prof.
Davies, D. F., M.A. Ox. Lectr.
Po, Un, B.Sc. Demr.
Mi, Hu Pak, B.A. Demr.

Physiology
Ride, L. T., M.A., B.M., B.Ch. Ox., M.R.C.S., L.R.C.P. Prof.
Quee, Lim Ek, M.B., B.S. Asst.
Yan, Cheng See, M.B., B.S. Demr.
Lee, Raymond, M.B., B.S. Demr.

Medicine

(for subjects of first 2 yrs.—Anat., etc., v. *supra*)

Anæsthetics
Smith, D. A., M.A., M.B., B.Ch. Camb., L.M.S.S.A., D.T.M. & H. Teacher.

Hygiene and Pub. Health
Yeo, K. C., M.D., D.T.M. & H., D.P.H. Camb. Lectr.

Medical Jurispr.
Greaves, A. V., M.B., M.R.C.P. & S., D.T.M. Lectr.

Medicine
Gerrard, W. I., O.B.E., M.D., Ch.B., D.P H. Aberd., F.R.C.P. Prof.
Po, Chiu Put, M B., B.S. Asst.
Tak, Wu Hung, M.B , B.S Asst.

Obstetrics and Gynæcology
King, Gordon, L.R.C.P., F.R.C.S., F.C.O.G. Prof.
Tung, Miss Eva Ho, M.B., B.S., D.T.M. & H. Lond., L.M., D.G.O., M.R.C.P.I. Asst.
Kim, Quek Cheng, M.B., B.S. Asst.

Ophthalmology
Hargreaves, M. B., Ch.B. Edin., M.R.C.P.Ed., D P.H. Eng., D.O.M.S. Lectr.

Pathology
. Prof.
Guzdar, J. S., M.B., B.S. Asst.
Loke, Kam Thong, M.B., B.S. Demr.

Pharmacology
. Lectr.

Pharmacy
Morley, L. J., M.P.S. Demr.

Radiology
Farr, F. J., M.B., Ch.B. Brist., D.M.R. & E. Lectr.

Surgery
Digby, K. H., M.B., B.S. Lond., F.R.C.S. Eng. Prof.
Kya, Lien Tsoong, M.B., B.S. Asst.
Fook, W. Lai, M.B., B.S. Asst.

Surgery, Clinical
Digby, Prof. K. H. Ho Tung Prof.

Vaccination [Teacher.
Thomas, G. H., M.D., B.S.

Venereal Diseases [Lectr.
Selby, J. A. R., M.B., Ch.B. Edin

GENERAL INFORMATION

The Univ. was incorporated in 1911 and formally opened in 1912. For early history, see *Yearbook* for 1929. The buildings, including class-room accommodation for 500 students, six hostels, laboratories, etc., together with playing-fields, occupy an area of 36 acres. In 1919 were opened the Schools of Physiology, Tropical Medicine, and Pathology presented by three Chinese gentlemen. "The root idea of the Univ. is to provide a place for Higher Education where Chinese youths can remain under the influence of their own parents and guardians . . . subject to the strong control which Chinese opinion exerts upon young men, instead of being adrift in a foreign country where a liberty unknown to students in the East is allowed to undergraduates" (*Calendar*, 1919–20).

The Court is composed of life, *ex-officio*, and nominated members; the Council is composed of the Chancellor, the Vice-Chancellor, the Treasurer, certain Government officials, the Chinese members of the Legislative Council, Deans of Faculty, and two representatives of the commercial community, with power for the Governor to appoint two additional members. The Senate consists of the Vice-Chancellor, the Director of Education, the Professors and Readers.

LIBRARY. General Library, *c.* 42,480 vols. The Fung Ping Shan Chinese Library includes 4734 sets of books and 41,105 vols. In 1933 the University bought from the Hankow Club a unique collection of some 3000 vols. written in English, French, and German dealing with China and things Chinese.

MUSEUM of Pathology and Trop. Med. LABORATORIES: Anat., Bact., Biol., Chem., Histol., Path., Physics, Physiol., Surgery, Trop. Med.; Applied Mechanics, Materials, Elec. Tech., Power House, Hydraulics, Steam, Elec. Machinery, Elec. Traction, Engin. and Carpentering workshops. HOSPLS. in the vicinity available for clinics, 400 beds; Govt. Bacteriogical Inst. and Mortuary.

FACULTIES. Med., Engin., Arts. The Arts Faculty includes a department of Chinese.

TERMS. Sept.–Dec.; Jan.–March; April–June.

ADMISSION. Matriculation Examination: Candidates are required to satisfy the Examiners at one and the same examn. in five subjects and to obtain a minimum aggregate of marks in the subjects taken together: (i) English; (ii) Chinese; (iii) Higher Chinese; (iv) Latin; (v) French; (vi) Portuguese; (vii) Urdu; (viii) any other approved classical or modern language; (ix) Elementary Mathematics; (x) Mathematics (more advanced); (xi) Physics; (xii) Chemistry; (xiii) Botany; (xiv) History; (xv) Geography; (xvi) Biblical Knowledge. All candidates must satisfy the Examiners in (i), in a language other than English, any one of (ii) to (viii), and in one of (xiv), (xv) or (xvi); also *either* in one of the mathematical subjects (ix) or (x), *or* in one science, (xi), (xii) or (xiii). Not more than two languages other than English or two sciences may be offered.

Special Regulations for Entrance to Faculties and Courses of Study: To qualify for admission into the Faculty of Medicine, a candidate must have satisfied the Examiners in Mathematics (either (ix) or (x)), and either in (xiv) or (xv).

To qualify for admission into the Faculty of Engineering or into any Univ. course or subject involving the study of advanced maths. (pure or applied), a candidate must have satisfied the Examiners either in (ix) or in (x). A

candidate offering (ix) must have satisfied the Examiners that he possesses an adequate knowledge both of geometry and trigonometry.

A candidate who satisfies the Examiners in (i), (ii), (iii) and in any two of (xiv), (xv), (xvi) shall be held to have qualified for admission into any of the three courses now prescribed for the Dept. of Chinese in the Faculty of Arts, viz.: for Study Groups, 6, 7 and 8.

DEGREES. B.A., B.Sc. (Eng.), M.A., M.Sc. (Eng.), M.B., B.S., M.D., M.S. The standard aimed at is that of the Univ. of London. To qualify for admission to the Bachelor's degree examns. residence for 12 (in Med.—15) terms is necessary; the medical course is 6 yrs. including one year devoted to the pre-medical sciences, physics and chemistry and to biology; 3 yrs. are devoted to clinical work subsequent to passing an examn. in anatomy and physiology.

The examn. for the Master's degree (except M.D.) may be taken at the end of 2 yrs. after graduation as Bachelor. For the M.A. or M.Sc. a thesis is required; for the M.S., evidence of special post-graduate experience. The examn. for the M.D. may be taken 5 yrs. after graduation, or at the end of 2 yrs. if evidence is produced of special post-graduate experience.

Graduates of other Univs. who wish to become candidates for the M.A. or M.Sc. degree must work under the direction of the Fac. concerned for at least 1 yr.

The Degree of B.A. may be obtained in any one of 4 Depts. under 7 "groups" of studies: (*a*) *Pure Arts and Science*: Group 1, Letters; Group 2, Experimental Science; Group 3, Social Science. (*b*) *Training of Teachers*: Group 4 (*a*), Science and Maths.; 4 (*b*), General. (*c*) *Commerce*: Group 5, Commercial Training. (*d*) *Chinese Studies*: Group 6, Chinese and English; Group 7, Chinese Studies.

FEES. The tuition fee is $400 a year; the hostel fee, which includes board and lodging, is $300 a year. Students who are allowed to live in hostels during a vacation—some have to because of their work, *e.g.* medical students, and others because their homes are too far away—pay vacation fees at the rate of $8 a week, each. When a student joins he is required to deposit caution money to the extent of $25 and to pay a registration fee of $5. The entrance fee to the University Union is $25 and the annual subscription is $20; this annual fee covers the annual subscription to practically all the athletic clubs. The graduation fee for Bachelors' degrees is $25; for Masters' degrees, $100. Probably about $1400 represents the minimum amount which, at present prices, would cover a student's annual expenses including vacations.

RESIDENCE. All students must reside in the quarters provided, or in hostels founded by religious bodies and conducted under regns. approved by the Council.

THE YEAR 1937–38

STUDENTS (Dec. 31, 1937). Full-time: 423 (including 85 women students). Part-time: 17

DEGREES. B.A., 33; B.Sc. (Engineering), 32; M.Sc., 1; M.B., B.S., 11.

UNIVERSITY OF RANGOON, BURMA

Founded 1920

CHANCELLOR—H.E. THE GOVERNOR OF BURMA.

PRO-CHANCELLOR—The Hon. U THARRAWADDY MAUNG MAUNG, B.Sc. ILL.

VICE-CHANCELLOR—The Hon. Sir MYA BU.

REGISTRAR—L. HTIN SI, M.A. Calc.

CONSTITUENT COLLEGES AND THEIR STAFFS

UNIVERSITY COLLEGE

Principal—Pe Maung Tin, M.A. Calc. B.Litt. Ox., B.E.S. (I.).

Biology

Meggitt, F. J., M.Sc., Ph.D. Birm., B.E.S. (I.) Prof.
Khanna, L. P., M.Sc. Panj., F.L.S. Asst. Lectr.
4 Demrs. and Asst. Demrs., 1 Curator.

Chemistry

Peacock, D. H., M.A. Camb., D.Sc. Lond., F.I.C., B.E.S. (I.) Prof.
Farquharson, J., B.Sc., Ph.D. (Aberd.), A.I.C. Lectr.
Venkateswaran, R., M.A. Mad., Ph.D. Lond. Asst. Lectr.
Tha, Po, M.Sc. Asst. Lectr.
Menon, B. K., M.Sc. Asst. Lectr.
8 Demrs. and Asst. Demrs.

Economics

..... Prof.
Bernardelli, H., D.Phil. Frankfurt Lectr.
Raj, J. S., B.A. Mad., M.Sc. (Econ.) Lond. Asst. Lectr.
Dube, R. C., M.A. All. Asst. Lectr.
2 Asst. Tutors.

Engineering, Civil

Webster, F., M.C., M.Eng. Liv. Prof.
Pendril-Davies, D. Lectr.
Burton, A., B.Sc. Manc. Lectr.
Jaidka, R. C., B.Sc. Brist. Asst. Lectr.
Eduljee, E. M. Workshop Supt.
1 Tutor.

English

Rhodes, F. W. W., M.A. N.Z., B.A. Ox. Prof.
Si, L. Htin, M.A. Calc. Lectr.
Aung, Htin, Ph.D. Dub., B.A. Lectr.
Beasley, Mrs. I. M., B.A., Ph.D. Lond. Temporary Lectr.
Gopalakrishnaaiyar, P. G., M.A., L.T. Mad. Asst. Lectr.
Cruttwell, M. J. P., B.A. Camb. Lectr.
Jembunathan, S., M.A. Asst. Lectr.
Min, Myo, B.A. Asst. Lectr.
11 Tutors and Asst. Tutors.

Geology and Geography

Beasley, C. G., M.A. Lond. Prof.
Turner, J. S., M.Sc. Lond., F.G.S. (Geol.) Sr. Lectr.
Spate, O. H. K., M.A., Ph.D. Camb. (Geog.) Lectr.
3 Demrs., 1 Asst. Tutor, 1 Cartographer.

History

Pearn, B. R., M.A. Lond., M.R.A.S. Prof.
Luce, G. H., M.A. Camb., B.E.S. (I.) Reader.
Desai, W. S., M.A. Bom. and Camb. Lectr.
Subramanian, K. S., M.A., L.T. Mad. Asst. Lectr.
4 Tutors and Asst. Tutors.

Law

Han, Ba, M.A. Calc., Ph.D. Freib., D.Litt. Bordeaux Prof.
Myint, U., B.A. Calc. Lectr.
Aung, Chan Tun, B.A., B.L. Pt.-time Lectr.

Logic

Purkayastha, N. C. Das, M.A., B.L. Calc. Asst. Lectr.

Mathematics

Owen, L. G., M.A. Ox., B.E.S. (I.) [Prof.
Lewis, E. G., B.Sc. Wales Lectr.

Asst. Lecturers

Haldar, K. P., M.A., M.Sc. Calc.
Ka, U, M.A., A.T.M.
Machado, F. E., M.Sc.
Mitter, O. K., M.Sc. Lond.
5 Tutors and Asst. Tutors.

Oriental Studies

Cassim, Khan Sahib A., B.A. Calc. (Pali). offg. Prof.
Aung, Hla, B.A. Lectr.
Maung, E., M.A. Asst. Lectr.
10 Tutors.

Physics

West, J., D.Sc. Manc., F.Inst.P. Prof.
Quayle, W. C., M.A., B.Sc. Lectr.
Srinivasan, N. G., M.Sc. Asst. Lectr.
8 Demrs. and Asst. Demrs.

Judson College

Principal—G. S. Jury, M.A., Ph.D. Yale.

Biology

Lecturers

Gates, G. E., M.A., Ph.D. Harv.
Dickason, F. G., M.A. Ohio.

Burmese

Pe, Tun, M.A. Calc., B.L., M.R.A.S., T.P.S., M.H.R. Lectr.
3 Instrs.

Chemistry

Scherling, C. C., M.A. Camb. Lectr.
Shivers, Marion E., M.A. Col. Lectr.
Guha, S. C., M.A. Calc. Lectr.

Economics

Andrus, J. R., B.A. Redlands, M.A., Ph.D. Calif. offg. Prof.
David, F. J. B., M.A. Mad. Lectr.
1 Instr.

English Literature

Rickard, S. H., B.A. Bucknell (on leave) Lectr.
Hunt, Helen K., M.A. Denison Dean of Women, Lectr.
Durrow, Miss A. E., M.A. Columb. Lectr.
Gyi, J. Kan, M.A. Chic.
3 Instrs.

Geography

Trueblood, L. W., M.A. Clark. Lectr.

History

Allan, A. B., M.A. Columb. Lectr.
Stewart, Miss B. J., Ph.D. Lond., B.A. Lectr.
2 Instrs.

Mathematics

Ghatak, M. N., M.A. Calc. Lectr.
Johnson, A. N., M.Sc. (on leave) Lectr.
Horning, W. A., M.Sc. Mich. Lectr.
1 Instr.

Pali

Chaudhuri, R. P., M.A. Calc., P.R.Schol. Lectr.
Pe, Tun, M.B.E., M.A. Calc., B.L., M.R.A.S., T.P.S., M.H.R. Lectr.
1 Instr.

Philosophy [Prof.
Jury, G. S., M.A., Ph.D. Yale
Hillman, O. H., M.A., M.Sc., Ph.D. Brown Lectr.
Bu, Hla, M.A. Calc., Ph.D. Lond. (Dean of Men) Lectr.
1 Instr.

Physics

Smith, D. O., B.A. Redl., M.A. Calif., B.Sc. Calif. Tech. Coll. (on leave) Lectr.
Majumdar, N. C., M.Sc. Calc. Lectr.
Basak, B. K., M.Sc. Calc. Lectr.
Mathew, K. T., M.A. Camb. Lectr.
1 Demr.

Medical College

Principal—Lt.-Col. R. V. Morrison, M.D., F.R.C.P.Ed., I.M.S.
Assistant—W. Chit Tun, B.Sc., M.B. Calc.

Anæsthetics

John, V. S., M.B., B.S., L.R.C.P. Lond., F.R.C.S. Eng. Lectr.

Anatomy

Irvine, Major G. H., M.D. Dub., F.R.C.S.Ed., I.M.S. Prof.
Guha, S. C., M.B. Calc., F.R.F.P.S. Glas. Asst. Lectr.
Guha, A. C., M.B., B.S. Demr.
Das, H. N., M.B., B.S. Demr.

Bacteriology and Pathology

Malone, Lt.-Col. R. H., M.D., D.P.H. McGill, I.M.S. Prof.
Gollerkeri, P. G., M.D. Bom. Asst. Lectr.
Venkataswamy, T., M.B., B.S. Asst. Lectr.
Ahad, N., M.B., B.S. Demr.

Contagious Diseases

Pillai, K. P., M.B., B.S. Bom., D.P.H. Lectr.

Dentistry

Drinkall, J. H., L.D.S., R.C.S. Lectr.

Forensic Medicine

David, M. D., M.B.E., M.B. Calc., C.M. Madr., F.R.C.S.Ed. Lectr.
Tin, Maung, L.R.C.P., M.R.C.S. Asst.

Hygiene and Public Health

Aung, San Hla, M.B., Ch.B. Edin., D.P.H. Camb. Lectr.

Materia Medica and Pharmacology

Kundu, M. L., M.B. Calc., F.R.F.P.S. Glas. Lectr.
Kahali, B. S., M.B. Calc. Asst.
Dasgupta, S. R., M.B., B.S. Demr.

Medicine

Morrison, Lt.-Col. R. V., M.D. Edin., F.R.C.P.Ed., I.M.S. Prof.
Menon, M. N., L.R.C.P., M.R.C.S. Asst.

Mental Diseases

Fraser, Major G. H., M.B., Ch.B. Edin., D.P.M., I.M.S. Lectr.

Obstetrics and Gynæcology

Treston, Lt.-Col. M. L., L.R.C.P., F.R.C.S., F.C.O.G., I.M.S. Prof.
Pereira, Miss C., M.B., B.S. Bom. Asst.

Ophthalmology

Cormack, Lt.-Col. H. S., M.C., M.B., Ch.B. Edin., F.R.C.S. Ed., D.O. Ox., I.M.S. Lectr.
..... Asst.

Physiology

Cropper, Capt. C. F. J., B.A. Ox. M.R.C.S., I.M.S. Prof.
Chowdhury, H., M.Sc., M.B. Calc., M.R.C.P. Edin. Asst. Lectr.
Rahman, K., M.B., B.S. Demr.

Radiology

Virmani, D. C., L.R.C.P., M.R.C.S., D.M.R.E. Lectr.

Surgery

McDonald, Lt.-Col. D. P., M.B., Ch.B. Ox., F.R.C.S.Ed., I.M.S. Prof.
Nundy, D. M., M.B., B.S. Asst.

Venereology

Lamech, T. E., M.A., M.B., Ch.B. Camb., M.R.C.S., L.R.C.P. Lectr.

Training College for Teachers

Principal and Lectr. in Hist. and Geog.—U. Ba, B.Ed. Edin., B.A., Prof. in Education—Miss M. E. Scott, M.B.E., M.A., B.Ed. Edin., B.E.S. Art Master—U. Ba Nyan. Lectr. on Teaching of Infants —Miss G. White, B.A. Lectr. in English—A. I. Burrows, M.A. (Educn.) Birm.

English [Asst. Lectr.

Grant, Mrs. I., B.A., B.T. Calc.
De Souza, Miss A. F., M.A. Wales Asst. Lectr.
Kamen, Miss A., M.A. Wales Asst. Lectr.

History and Geography

Wemyss, Miss F., B.A., B.Ed. Asst. Lectr.

Mathematics

Chit, Daw, B.A., B.Ed. Asst. Lectr.
Emin, Mrs. O. W., B.A. Asst. Lectr.

Physical Training

Hla, Tin D., Ph.B. Denison Lectr. & Instr.
Barnard, Miss H. Lectr. & Instr.
3 Tutors, 5 other teachers.

Agricultural College

Principal—A. McLean, B.Sc. (Agric.) Edin., B.A.S.

Agriculture

McLean, A., B.Sc. (Agric.) Edin., B.A.S. Prof.
Tin, Ba, B.Ag. Bom., B.A.S. (II). Lectr.
Pal, H. C. D., B.Sc. (Agric.) Aberd., B.A.A.S. Asst. Lectr.

Agricultural Botany [Lectr.

Rhind, D., B.Sc. Brist., B.A.S.
Varma, S. C., M.Sc. Luck., Ph.D. (Lond.) Lectr.
3 Demrs.

Agricultural Chemistry

Sen, A. T., M.Sc. Dacca, Ph.D. Lond., A.I.C. Lectr.
Aiyar, S. P., B.A. Mad., Ph.D. Lond., A.I.C. Lectr.
4 Demrs.

Plant Pathology

Seth, L. N., B.Sc. Panj., Ph.D., D.I.C. Lond., B.A.S. (II). Lectr.
2 Demrs.

Entomology and Sericulture

Te, A. Ba, B.Sc. Calc., B.Ag. Bom., B.A.S. (II). Lectr.
3 Demrs.

COLLEGE MANAGED BY THE UNIVERSITY AND ITS STAFF

Intermediate College, Mandalay

Principal—A. D. Marshall, M.A. Ox., with 6 Lecturers and 4 Tutors.

GENERAL INFORMATION

The proposal to found a University in Burma was first made in 1892 as a result of the expansion of Rangoon and Judson Colleges. In 1878 the Rangoon High School was giving instruction to enable pupils to appear for the First Arts Examination of the University of Calcutta. In 1884–85 a College Dept. of the Rangoon High School was affiliated in Arts to the Univ. of Calcutta under the name of Rangoon College. This College in 1885–86 was controlled by the now defunct Educational Syndicate until 1904, when Government assumed direct management. Judson College, known until 1904 as the American Baptist Mission College, first gave " Intermediate " instruction in 1894. Both Colleges developed rapidly and provided instruction up to the Bachelor's degree, pass and honours standards in a limited range of subjects, viz. English, Pali, Philosophy, Mathematics, History, Chemistry and Physics, and in Burmese Composition to the Intermediate standard only.

In 1910, representations elicited an announcement that the Government of India hoped to establish a separate University for Burma as part of their general policy in higher education. Draft Rules to constitute a University were submitted by the Government of Burma to the Government of India in 1913 and again in 1916. After the war the Government of India wished to defer the scheme until the Royal Commission on Calcutta University had made its report, but the Lieut.-Governor of Burma was urged to establish a University as soon as possible. The main lines of the present University organization were then laid down. In June 1918 Mr. (later Sir) Mark Hunter was appointed Director of Public Instruction with a view to drafting the University Constitution. This was slightly modified in the light of the Commission's Report and of the Dacca University Bill. The University of Rangoon Act was passed by the Burma Legislative Council in September 1920 and received the assent of the Governor-General in Council on 24th October, 1920. The Act was amended by the Legislature in 1924.

The Government College, Rangoon, and Judson College were incorporated in the University as the first Constituent Colleges of the University. In 1925 an Intermediate College was opened at Mandalay by Government. This College is managed by the University. In 1930 a Constituent College for the teaching of Medicine and Surgery and another for the Training of Teachers were established in the University. In 1938 an Agricultural College was established at Mandalay as a Constituent College.

The Calcutta University Commission laid down four essentials for a modern University, namely, that provision should be made for teaching and studies along the most approved lines and for the social life of the students in a centralized residential University; that there should be provision in the Constitution of the University for the disposal of purely academic matters by purely academic bodies and for an adequate representation of academic and non-academic interests in the Supreme Governing Body of the University; that there should be an adequate distribution and co-ordination of powers and functions amongst the various University agencies, administrative and academic, and that University affairs should be regulated, under Government protection, on a self-governing basis.

These essentials are adequately secured in the Rangoon University. Its organization does not satisfy all the tests of the Calcutta University Commission, but it is an organization adapted to the peculiar needs of Burma. It is not a unitary University of the type of the Dacca University. In the Rangoon University there is in general no hard and fast line between the University and the Colleges. The teaching staff are attached to colleges, but the work is done under University supervision and control. For administrative purposes the relation between the University and the Constituent Colleges is closer than the relation between the University and affiliated colleges in Indian Universities. There is real University control over the colleges on the one hand while on the other hand each Constituent College is represented on the Legislative and the Executive Bodies of the University.

The University is governed by a widely representative Council consisting of not more than 70 members, which exercises its functions through an Executive Committee of 12 members. As the Supreme Governing Body it has power to review the action of other authorities of the University. It is also empowered to sanction the annual financial estimates of the University. The Senate (the academic body of the University) consists of the Vice-Chancellor, the Director of Public Instruction, Burma, the Principals of the Constituent Colleges, the Professors, three members of the Council and not less than ten lecturers in Constituent Colleges. Its executive duties are discharged by a Standing Committee.

The Constituent Colleges are controlled by Governing Bodies and the Principals are assisted in the internal administration of the Colleges by advisory bodies of teachers.

The University and its Constituent Colleges are housed in buildings situated on an estate of about 450 acres adjoining the Victoria Lake. The total cost of land and buildings was approx. Rs. 1,65,00,000.

SPECIAL FEATURES. Courses in Burmese; in old Mon (Talaing); in Burmese Epigraphy leading to the M.A.; course in Far Eastern History with emphasis on Chinese and further Indian studies; special courses in Burmese History. The University has access to a comprehensive collection of MSS. of Pali Pitakas with commentaries and Talaing MSS. in the Bernard Free Library and is engaged in the collection of similar materials.

LIBRARIES. University, 22,403 vols. This Library is devoted primarily to Burmese and Far Eastern Studies. University College, 38,560 vols.; Judson College, 22,057 vols.; Medical College, 1800 vols.; Training College for Teachers, 11,250 vols.; Intermediate College, 2947 vols.; Agricultural College, 8459 vols.

DEGREES AND DIPLOMAS. Intermediate course, 2 yrs. B.A., B.Sc., B.Sc. Agric., B.Sc. For., and Dips. in Engin. and in For., 2 yrs. after passing Inter. Examn. B.Sc. Engin., 4 yrs., and M.B., B.S., 5 yrs. after Inter. Examn. M.A., M.Sc., 1 yr. postgrad.; B.Ed., Teachers' Certif., 2 yrs. postgrad.

ADMISSION. Ordinarily by Matriculation or a pass in the Anglo-Vernacular High School examn., or the English High School examn. held by Education Dept. in English, Burmese, Maths., and two optional subjects. Proficiency in English must be shown.

TERMS. Middle of June to beginning of October and beginning of November to middle of March.

FEES. Matriculation: Rs. 10. Tuition: Rs. 9-25 p.m. Examinations: B.A., B.Sc., Rs. 30; B.A. (Hons.), B.Sc. (Hons.), B.Sc. Agric., Rs. 40; M.A., M.Sc., Rs. 40; B.L., B.Sc. For., B.Sc. Engin., B.Ed., Rs. 50; M.B. and B.S., Rs. 60; Univ. Teachers' Certif., Dip. in Engin., Rs. 40; Dip. in For., Rs. 50.

SCHOLS. for advanced study in U.K. : 1 each in Ground Engin. (Civil Engin.) and Pilot's Licence, Class A ; Meteorology ; Venereal Diseases ; Elec. Engin. and Electro-Communication (2) ; Dom. Econ. and Sci. and Needlework ; Geog. ; Manuf. of Rubber Goods ; Sericulture and Silk-weaving ; Dietetics and Child Devel. (leading to M.A. of Univ. of Chicago) and Kindergarten Method in England (leading to Teacher's Diploma) ; Manual Instruction in Schools ; Eye, Ear, Nose and Throat (D.O.M.S. & D.L.O.) ; Dip. in Physical Educ. followed by 1-yr. course for Teacher's Dip. in Educ.

PUBLICATIONS. *Calendar* ; *Annual Reports* ; *Convocation Addresses*.

THE YEAR 1937–38

RESIGNATIONS. A. J. Gould, A. Brookes, O. H. Teulon.

DEATHS. E. M. Patail and Sao On Kya, Fellows.

STUDENTS. Full-time : 2162 ; graduates, 119. Part-time : 13.

DEGREES. B.A. (Pass), 85 ; B.A. (Hons.), 24 ; M.A., 2 ; B.L., 27 ; B.Sc. (Pass), 25 ; B.Sc. (Hons.), 6 : M.Sc., 2 ; B.Sc. Engin., 4 ; B.Sc. For., 1 ; M.B., B.S., 12 ; B.Ed., 42 ; Dip. in Engin., 3 ; Univ. Trained Teachers' Certif., 60.

MANDATED TERRITORY—PALESTINE

THE HEBREW UNIVERSITY OF JERUSALEM

Founded 1925

PRESIDENT—JUDAH L. MAGNES, Ph.D. Heid.

CHAIRMAN, BOARD OF GOVERNORS—CHAIM WEIZMANN, Sc.D. Freib., D.Sc. Manc.

CHAIRMAN, EXECUTIVE COUNCIL—S. SCHOCKEN.

ADMINISTRATOR—D. W. SENATOR, Ph.D. Freib.

RECTOR—Prof. A. FRAENKEL, Ph.D. Marb.

LIBRARIAN—G. WEIL, Ph.D. Berlin.

TEACHING STAFF

Archæology and Art

Mayer, L. A., Ph.D. Vienna (Near Eastern Art and Archæol.) Prof.

Sukenik, E. L., Ph.D. Dropsie Coll., Phila. (Palest. Archæol.) Prof.

Bible

Segal, M., Rabbi, M.A. Ox. (Jewish Bible Exegesis) Lectr.

Botany

Hareubeni, E., Ph.D. Lausanne (Biblical Botany) Lectr.

Even-Ary, M., Ph.D. Frankf. (Plant Physiol.) Sr. Asst.

Rayss, T., D.Sc. Geneva (Plant Physiol.) Sr. Asst.

Zohary, M., Dr. rer. nat. Prague Sr. Asst.

Cancer Research

Halberstaedter, L., Ph.D. Berl. (Radiol.) Prof.

Dolschansky, L., Ph.D. Berl. (Exp. Path.) Lectr.

Goldhaber, G., Ph.D. Freib. (Radiology) Sr. Asst.

Chemistry

Fodor, A., Ph.D. Zür. (Biol. and Coll. Chem.) Prof.

Farkas, L., Ph.D. Berl. (Phys. Chem.) Prof.

Bobtelsky, M., Ph.D. Berne (Analyt. Chem.) Prof.

Frankel, M., Ph.D. Vienna (Biol. Chem.) Lectr.

Weizmann, M., D.Sc. Grenoble (Org. Chem.) Lectr.

Reifenberg, A., Ph.D. Giessen (Appld. Biol. and Coll. Chem.) Lectr.

Economics

Brutzkus, B., Ph.D. Novo-Alexandria (Agr. Econ.) Prof.

Education

Kaplan, M., M.A. Columbia (Principles of E.) Prof.

Dushkin, A. M., Ph.D. Columbia (Educ. Method) Lectr.

Ethnology

Brauer, E., Ph.D. Res. Fellow.

Farm Management

Eleazari-Volcani, J., Dip.Agr. Königsberg Prof.

French Civilization

Duff, A. B., Ph.D. Yassy Lectr.

Geology

Picard, L., Ph.D. Freib., D.Sc. Lond. Lectr.

Avnimelech, M., Ph.D. Grenoble Sr. Asst.

Gynæcology

Zondek, B., Ph.D. Berl. Prof.

History (and Topography)

Baer, F., Ph.D. Freib. (Med. Jewish Hist.) Prof.
Klein, S., Ph.D. Heid. (Palestine Research) Prof.
Koebner, R., Ph.D. Berl. (Mod. Hist.) Prof.
Dinaburg, B. (Modern Jewish Hist.) Lectr.
Goitein, S. D., Ph.D. Frankf. (Arabic and Moslem Hist.) Lectr.
Tcherikover, A., Ph.D. Berl. (Gk. and Roman Hist.) Lectr.

Hygiene and Bacteriology

Kligler, I. J., Ph.D. Columbia Prof.
Mer, G., M.D. Naples (Epidemiol.) Prof.
Olitzky, L., M.D. Berlin (Serol.) Lectr.
Aschner, M., Ph.D. Breslau Sr. Asst.
Leibowitz, J., Ph.D. Berlin, M.D. Basel (Nutrition) Sr. Asst.

International Relations

Bentwich, N., M.A. Camb. Prof.

Literature

Klausner, J., Ph.D. Heid. (Mod. Hebrew Lit.) Prof.
Yellin, D. (Hebrew Poetry, Spanish Period) Prof.

Mathematics

Fraenkel, A., Ph.D. Marb. (Pure Maths.) Prof.
Fekete, M., Ph.D. Budapest (Pure Maths.) Prof.
Amira, B., D.Sc. Math. Geneva (Pure Maths.) Lectr.
Levitzky, J. Sr. Asst.
Motzkin, Th., Ph.D. Basel (Geometry) Sr. Asst.

Meteorology

Ashbel, D., Ph.D. Berlin Sr. Asst.

Music

Lachmann, R., Ph.D. Berlin (Oriental M.) Res. Fellow.

Parasitology

Adler, S., M.B. Leeds, D.T.M. Liv. Prof.
Theodor, O., Ph.D. Königsb. (Entomol.) Lectr.
Witenberg, G., Dipl. vet. Novotsherkask (Helminthol.) Lectr.

Philology

Torczyner, H., Ph.D. Vienna (Hebrew Philol.) Prof.
Weil, G., Ph.D. Berlin (Arabic and Turkish Philol.) Prof.
Baneth, D., Ph.D. Berlin (Arabic Lang. and Lit.) Lectr.
Schwabe, M., Ph.D. Berl. (Classical Philol.) Lectr.
Lewy, H., Ph.D. Berlin (Latin) Lectr.
Pflaum, H., Ph.D. Heid. (Romance Langs.) Lectr.
Polotzky, H. J., Ph.D. Gött. (Egyptology) Lectr.
Rivlin, J., Ph.D. Frankf. (Arabic Lang.) Instr.

Philosophy

Roth, L., M.A., D.Phil. Ox. Prof.
Bergmann, H., Ph.D. Prague Prof.
Guttmann, J., Ph.D. Breslau (Jewish Philosophy) Prof.
Scholem, G., Ph.D. Munich (Jewish Mysticism) Prof.
Buber, M., Ph.D. (Social Philos.) Prof.

Physics

Sambursky, S., Ph.D. Königsb. (Exp. Physics) Lectr.
Alexander, E., D.Ing. Sr. Asst.
Wolffsohn, G., Ph.D. Bonn. Sr. Asst.

Physiology

Wertheimer, E., Ph.D. Heid. (Pathol. Physiol.) Prof.
Geiger, A., M.D. Naples Lectr.

Prehistory
Stekelis, M., D.Sc. Paris Research Fellow.

Sociology
Ruppin, A., Ph.D. Halle (Sociol. of the Jews) Prof.
Landshut, S., Ph.D. Freib. Res. Fellow.

Talmud
Epstein, J. N., Ph.D. Berne (Talmudic Philol.) Prof.
Assaf, S., Rabbi (Gaonic and Rabbinic Lit.) Prof.
Albeck, H., Ph.D. Vienna (Halakha) Prof.
Gulak, A., Dipl. Jur. Dorpat (Jewish Jurispr.) Prof.

Zoology
Bodenheimer, F., Ph.D. Bonn (Entom. and Ecology) Prof.
Aharoni, J. (Syst. Zool.) Lectr.
Haas, G., Ph.D. Vienna (Comp. Anat.) Lectr.
Reich, K., Ph.D. Vienna Sr. Asst.

GENERAL INFORMATION

The University was opened on April 1, 1925, by Lord Balfour, as a group of research institutes. It is provisionally registered under the Law of Societies of Palestine. A Faculty of Humanities was established in 1928, a Faculty of Science in 1935.

LAND AND BUILDINGS. The University site is located on Mount Scopus. The land held by or for the Univ. now exceeds 220 dunams (55 acres). The Univ. Buildings comprise a building for the Depts. for Biological and Colloidal Chem., Genl. Chem., Parasitol., and Hygiene and Bacteriol., the Wattenberg Building for the Institute of Mathematics, and the Monness Shapiro Building for the Institute of Physics, which is, for the present, being used also for the Depts. of Botany, Zool., Geol.; the Library (Wolffsohn House), which also houses the Institute of Oriental Studies and the Archæological Collection; the Ratnoff Building of the Medical School; three service buildings (offices, power house, workshop); an animal house for medical experimentation; and the Open-Air "Minnie Untermyer Memorial Theatre." The Cancer Research Laboratories have provisionally been installed at the Jerusalem Health Centre.

LIBRARY (NATIONAL AND UNIVERSITY), over 320,000 vols. Includes the Goldzieher Collection of books and periodicals on Arabic and Oriental Lit., the mathematical library of the late Felix Klein of Göttingen, and the Jarcho Medical Library. Among its manuscripts are the original of Einstein's Theory of Relativity and the Schwadron Collection of autographs and likenesses of Jewish men and women of distinction. The Schocken Collection of Hebrew Incunabula now contains 64 out of the 103 existing Hebrew Incunabula. The Library issues a bibliographical quarterly, *Kiryat Sefer* (Editor, I. Joel, Ph.D.).

FACULTIES. The *Faculty of Humanities* (Dean: Prof. J. N. Epstein), includes the Inst. of Jewish Studies (Chairman of Council—Chief Rabbi Dr. Hertz of London), the School of Oriental Studies (Director—L. A. Mayer), the Group of General Humanities (Archæol., Philol., Hist., Soc., Sci., Philos.) and the Dept. of Educ. The *Faculty of Science* (Dean: Prof. M. Fekete) includes the Inst. of Maths., the Inst. of Physics, the Chemistry Depts., the Depts. of Botany, Zool. and Geol. and the Lab. of Meteorol. and Climatol. It also includes provisionally the Depts. of Parasitol. and Hygiene and Bacteriol. and the Physiol., Cancer Research and Hormone Research Labs.

DEGREES. M.A. (4 yrs.), M.Sc. (4 yrs.), Ph.D. (2 postgraduate yrs.).

FEES. Registration, £1. Basic tuition fee, £9.250 p.a. Laboratory fee,

£10 p.a. (£15 for Chemistry). Library, medical service, sport, membership of Students' Organization, £1.410.

SCHOLARSHIPS: about 40; 5 Research Fellowships. For Lord Plumer Fellowship, £100, in Arabic Studies, *see* App. II. C. 25.

PUBLICATIONS. *Information for Students* (Hebrew), pubd. May. *General Information* (Hebrew, English), pubd. March. The Hebrew Univ. Press publishes *Tarbitz*, a Quarterly Review of the Humanities; *Kiryat Sefer*, a Bibliographical Quarterly; and has published books and pamphlets on Jewish Studies, Archæology, Philosophy, Botany of Palestine, International Relations, a series (at present 18) of Hebrew translations of philosophical classics, as well as a series of inaugural and other University lectures.

THE YEAR 1937–38

BENEFACTIONS. Isaac Ochberg bequest, about £90,000. Eleanor S. Cohen (Baltimore) bequest, about £15,000. Endowment of Lectureship in French Civilization and gift of valuable books, by French Govt.

NEW BUILDING. Ratnoff Building of the Medical School completed.

NEW DEPARTMENTS AND POSTS. Chair of Archæology of Palestine, Lectureship in French Civilization, Ochberg Chair of Farm Management.

EXTRA-MURAL WORK. Lecture series in Jerusalem and other Palestinian towns.

VISITS OF TEACHERS FROM OTHER UNIVERSITIES. Prof. M. P. Kohne (Massachusetts Inst. of Technology), "The Gobi Desert"; Prof. André Siegfried (Collège de France), "The Modern World and the Industrial Revolution"; Prof. A. Weill (Univ. of Strasbourg), "From the History of Eyeglasses"; J. Isaacs (Univ. of London), 12 lectures on "English Literature from 1880 to the Present"; Prof. J. L. Kandel (Teachers' Coll. of Columbia Univ.), "Educational Problems of Our Day"; Dr. F. London (Poincaré Institute of the Sorbonne), "Condensed Helium and the Bose-Einstein Statistics"; Prof. S. Bouet (Rousseau Institute of Geneva), "Twenty-five Years of Experimental Pedagogy"; Prof. G. Meyer (Berlin), "The Personality of Lassalle"; Prof. E. Toeplitz (Bonn), "Characteristic Trends in Scientific Thought in Greece and the East"; Dr. S. de Wolfe (Univ. of Amsterdam), "Economic Prosperity and Depression"; Prof. M. Schorr (Institute of Jewish Studies and Univ. of Warsaw), "Problems connected with Early Oriental Law Codes"; Prof. M. Loewi (Breslau), "The Investigation of Character: its Limitations and Possibilities."

DEATH. Dr. Alexander Eig (Systematic Botany and Geobotany).

STUDENTS. 734, including 49 research students.

DEGREES OBTAINED. M.A., 11; M.Sc., 10; Ph.D., 1.

UNATTACHED INSTITUTIONS AND COLLEGES OVERSEAS

THE INDIAN INSTITUTE OF SCIENCE, BANGALORE

Founded 1911

Address—Hebbal, Bangalore District. *Telegrams*—Science, Bangalore.

VISITOR—H.E. THE VICEROY OF INDIA.

DIRECTOR—RAO BAHADUR B. VENKATESACHAR, M.A., F.Inst.P.

REGISTRAR—C. E. W. JONES, C.I.E., M.A.

TEACHING STAFF

Biochemistry

Subrahmanyan, V., B.A. Mad., D.Sc. Lond., F.I.C. Prof.
Banerjee, B. N., M.Sc. Calc. Asst.
Sreenivasaya, M., B.A. Madr., F.I.I.Sc. Asst.
Sastri, B. N., M.Sc. Bom. Asst.

Chemistry, General

..... Prof.
Krishnaswami, K. R., B.A. Mad., D.Sc. Lond. Ag. Asst. Prof.
Jatkar, S. K. K., M.Sc. Bom. Ag. Asst. Prof.

Chemistry, Organic

Guha, P. C., D.Sc. Calc. Asst. Prof.
Ayyar, P. Ramaswami, M.A. Mad. Asst.
Rao, B. Sanjiva, B.A. Mad. Asst.
Iyer, B. H., M.Sc. Bom. Jr. Asst.

Electrical Communication Engineering

Sreenivasan, K., B.Sc. Mysore Asst. Prof.

Electrical Technology

Aston, K., B.Sc.Tech. Manc., M.Sc. Wales, M.I.E.E. Prof.
Badhe, B. J., M.Sc. Nag. Lectr.
Kelkar, P. K., B.Sc., Ph.D. Liv. Asst.
Badkas, D. J., M.Sc. Nag. Asst.

Engineering, Mechanical

Rau, K. B. Krishna, B.A., B.E. Mad. Lectr.

French and German [Lectr.

Amrita, Row K., M.A. Mad., L.T.

Physics

Raman, Sir C.V., M.A., LL.D. Calc., D.Sc. Calc. and Bom., Ph.D. Freib., F.R.S., N.L. Prof.
Rau, Govinda, M.A., Ph.D. Lond. Asst.

GENERAL INFORMATION

The object of the Institute is to provide for advanced instruction and conduct original investigations in all branches of knowledge and in particular in such branches of knowledge as are likely to promote the material and industrial

welfare of India, to establish and maintain Chairs and Lectureships in Science and Arts, to provide suitable libraries, laboratories and equipment, and to co-operate as far as possible with such recognized institutions as exist or are founded in future for cognate objects in India, and to do all such other things as are incidental or conducive to the attainment of the above-noted objects or any of them.

Associateships are awarded on the recommendation of the Senate for 5 terms (of which there are 3 in a yr.—July–Sept., Oct.–Dec., Jan.–March) devoted entirely to research work; also for 3 terms *plus* a period of research elsewhere before or after the period spent at the Institute. *Fellowships* may be awarded to Associates who, having spent 5 yrs. in actual practice, produce satisfactory evidence of original and valuable research work, or other contribution to the advancement of scientific or industrial knowledge. *Certificates* are granted to students who satisfactorily complete approved courses of study. 136 Associateships and 5 Fellowships have been granted.

Students reside in a *Hostel*. Messing charges are from Rs. 20 to Rs. 30 p.m.; rent, lighting, and service, Rs. 10 p.m.

PUBLICATIONS. *Calendar* (annual); *Journal of the Institute*, about 16 parts annually. The Library contains 27,517 vols.

THE YEAR 1937–38

STUDENTS. Full-time: 164, all graduates. Part-time: 20, all graduates. Biochem., 38; Genl. Chem., 22; Org. Chem., 26; Elec. Tech., 74; Physics, 24.

CEYLON UNIVERSITY COLLEGE, COLOMBO

Founded 1921

PRESIDENT—H.E. THE GOVERNOR OF CEYLON.
PRINCIPAL—R. MARRS, C.M.G., C.I.E., M.A. Ox.
REGISTRAR—F. H. V. GULASEKHARAM, M.A. Madras.
LIBRARIAN—R. S. ENRIGHT, B.A. Lond.

TEACHING STAFF

Botany

Ball, N. G., M.A., Sc.D. Dub. Prof.
Sarbadhikari, P. C., M.A. Calc., D.Sc., Ph.D. Lond., D.I.C., F.L.S. Lectr.

Chemistry

Kandiah, A., Ph.D., D.Sc. Lond., A.R.C.S., D.I.C., A.I.C. Prof.
Fonseka, E. L., M.Sc., Ph.D. Lond., A.I.C. Lectr.
Smith, L. D., B.A., B.Sc. Lond. Asst. Lectr.

Classics

Whitely, S., M.A. Ox. Prof.
Rodrigo, J. L. C., M.A. Ox. Lectr.
Amerasinghe, C. W., M.A. Camb., B.A. Lond. Asst. Lectr.

Economics

Gupta, B. B. Das, M.A., Ph.D. Calc., B.Sc. Lond. Lectr.
Shenoy, B. R., M.Sc. (Econ.) Lond. Asst. Lectr.

English

Ludowyk, E. F. C., B.A. Lond., M.A., Ph.D. Camb. Prof.
Passé, H. A., B.A. Lond. Lectr.
de Souza, A. T. A., B.A. Lond. Asst. Lectr.

French and German

Jansz, Rev. P. L., M.A. Camb. Visiting Lectr.

Geography

Ginigé, A., M.A. Lond. Lectr.

History, Modern

Pakeman, S. A., O.B.E., M.C., M.A. Camb. Prof.
Dé, J. C., M.A. Calc. and Lond. Lectr.
La'Brooy, W. J. F., B.A. Lond. Asst. Lectr.
Mendis, G. C., B.A., Ph.D. Lond. (Ceylon H.) Asst. Lectr.

Mathematics

Suntharalingam, C., M.A. Ox., B.Sc. Lond. Prof.
Caspersz, U. D. R., B.Sc. Lond. Lectr.
Gulasekharam, F. H. V., M.A. Madras Lectr.
Nadaraser, S., M.A. Camb., B.Sc. Lond. Asst. Lectr.

Philosophy

The Principal.
Dharmarajah, J. V., M.A. Lond. Visiting Lectr.

Physics

Mailvagunam, A. W., B.A. Camb., B.Sc. Lond. Prof.
Appapillai, V., B.Sc. Lond. Lectr.
Baliga, S. P., M.A. Madras Asst. Lectr.

Sinhalese, Sanskrit, and Pali

Malalasekera, G. P., M.A., Ph.D. Lond. Lectr.

Siddhartha, Rev. R., M.A. Calc. Lectr.

Wijesekera, O. H. de A., B.A., Ph.D. Lond. Asst. Lectr.

Tamil

Kanapathipillai, K., B.A., Ph.D. Lond. Lectr.

Zoology

Burt, D. R. R., B.Sc. St. And., F.L.S. Lectr.

Fernando, W., B.Sc., Ph.D. Lond. Asst. Lectr.

GENERAL INFORMATION

As a preliminary step to the formation of a University for Ceylon, the College was established in 1921 by the Ceylon Government. A College Council, nominated by the Governor of the Colony, advises the Government on all important questions connected with higher education.

LABORATORIES. Botany, Chemistry, Physics, Zoology.

TERMS. July-Sept.; Oct.-Dec.; Jan.-Mar.

Admission to the Ordinary courses is restricted to students who have passed the London Matriculation Examination or obtained exemption from it. Others may be admitted to special courses on payment of admission fee, Rs. 10 minimum.

Degree Courses are provided for the B.A., and B.Sc., of the University of London. By special arrangement the University holds its Honours examinations in Ceylon in Engl., Classics, Oriental Langs., Hist., Philos., Maths., Physics, Chem., Botany, and Zool. A Pre-Registration course in Physics, Chem., and Biol. is provided for students of the Ceylon Medical College.

The College provides a 2 yrs.' course for Diplomas in Sinhalese and Tamil to students who have already passed the London Inter. Examn. in Arts with Sinhalese and Pali or Sanskrit in the case of Diploma in Sinhalese, and Tamil and Sanskrit in the case of Diploma in Tamil, as their subjects.

FEES FOR TUITION. Full course—Rs. 150 per annum plus Rs. 30 per annum extra for each science subject taken. Single subject: Arts—Rs. 15 per term; Science—Rs. 25 per term.

RESIDENCE. Protestants, Roman Catholics, and non-Christians have hostels under College supervision. Cost of board and lodging, approximately, Rs. 40 p.m. There is a small hostel for women students, under Christian auspices.

SCHOLARSHIPS FOR GRADUATES. The Ceylon Govt. offers 4 of £300 per annum, each tenable for 2 or 3 yrs. in a British Univ.—one for Arts, one for Oriental Langs., one for Science, and one for Maths. Candidates must have been resident in the Island 5 yrs.

PUBLICATIONS. *Prospectus* (July).

THE YEAR 1937–38

STUDENTS. Full-time: Arts and Pure Science, 586.

DEGREES OBTAINED (Univ. of London) in 1937. B.A., 16; B.Sc., 24.

CEYLON MEDICAL COLLEGE, COLOMBO

Founded 1870

PRESIDENT—H.E. THE GOVERNOR OF CEYLON.

PRINCIPAL—S. T. GUNASEKERA, M.R.C.S. Eng, L.R.C.P., D.P.H. Lond., L.M.S., Director of Medical and Sanitary Services of Ceylon.

REGISTRAR—Prof. W. C. O. HILL, M.D. Birm., F.L.S. (Acting).

TEACHING STAFF

Anæsthetics

de Silva, J., M.B., C.M. Aberd., D.P.H. Camb. Lectr.

Anatomy

Hill, W. C. O., M.D. Birm., F.L.S. Prof.

Chanmugam, M.Sc. Lond., M.R.C.S., L.R.C.P., L.M.S. Lectr.

Kathirgamatamby, V., M.B. Madr., F.R.C.S., D.L.O. Pt.-time Asst. Lectr.

Fernand, V. S. V., L.M.S. Demr.

Rajasingham, A. S., F.R.C.S., L.M.S. Pt.-time Demr.

Bacteriology

Nicholls, L., B.A., M.D. Camb., L.S.A. Lond. Lectr.

Leanagé, D. J. T., M.D. Lond., F.R.F.P. & S. Glas., M.R.C.P., D.T.M. & H. Lond. Demr.

Thiagarajah, S., M.R.C.P., L.R.C.S. Ed., L.R.F.P.S. Glas., L.M.S. Demr.

Dermatology

Leanagé, D. J. T. (also Bact.) Lectr.

Diseases of Children

Lecturers

The Profs. of Med. and Surg.

Forensic Medicine

Sinnadurai, N., M.D. Lond., L.M.S. Lectr.

Gynæcology

Attygalle, N., F.R.C.S. Eng., L.R.C.P., D.L.O., M.C.O.G. Lond., L.M.S. Lectr.

Infectious Diseases

Kandiah, C., M.B., C.M. Madr., L.R.C.S. Edin. Lectr.

Leprosy

Bartholomeusz, F. E. R., L.R.C.P. & S. Edin., L.R.F.P.S. Glas.

Medicine

Fernando, P. B., M.B., B.S. Lond., M.R.C.P., D.T.M. & H. Eng., L.M.S. Prof.

Lecturers

Blazé, J. R., M.D. Lond., M.R.C.P., L.M.S.

Fernando, C. F., M.D. Lond., M.R.C.P., M.R.C.S.

Wijerama, E. M., M.D., M.R.C.P., D.T.M. & H. Lond., L.M.S.

Cooke, G., M.D. Lond., L.R.C.P., M.R.C.S.

Leanagé, D. J. T. (also Bact.).

Dharmasena, C. B., M.B., B.S. Lond., L.M.S.

Medicine, Clinical

The Visiting Physicians of the General Hospital.

Midwifery

Navaratnam, S. L., F.R.C.S.E., D.T.M. & H. Lond., L.M.S. Lectr.

Wickramasuriya, G. A. W., F.R.C.P. Eng. and Ed., M.C.O.G., L.M.S. Visiting Obstetrician.

Caldera, R., F.R.C.S. Ed., L.R.F.P.S. Glas., L.M.S. Obstetric Registrar.

Ophthalmology

Arndt, E. W., M.R.C.S. Eng., L.R.C.P. Lond., D.O.M.S., L.M.S. Lectr.

Otology, Laryngol. and *Rhinol.*

Kathirgamatamby, V. (also Anat.) Lectr.

Parasitology [Lectr.

Nicholls, L. (also Bacteriol.)

Demonstrators

Wijerama, E. M., M.D., D.T.M. & H. Lond., L.M.S. (Protozool.)

Leanagé, D. J. T. (v. also Bact.).

Gunewardena, S. A., L.R.C.P. & S. Edin., F.R.F.P. & S. Glas., D.T.M. Liv. (Helminthol.)

Pathology [Prof.

Karunaratne, W. A. E., M.D. Lond.

Sinnadurai, N. (also Forensic Med.) Hon. Lectr.

de Saram, G. S. W., M.B., B.S. Lond., M.R.C.S., L.R.C.P., L.M.S. Lectr.

Cooray, G. H., M.B., B.S. Lond. Demr.

Pharmacy

Pinto, C. F. X., M.P.S. Lectr.

Physiology and Pharmacology

..... Prof.

Corera, M. L., M.B., B.S. Lond., L.M.S. Actg. Lectr.

Jayawardena, S. F., B.Sc. M.B., B.S. Lond., L.R.C.P., M.R.C.S., L.M.S. (Pharmacol.) Lectr.

Hoover, A. A., B.Sc., Ph.D. Lond. (Biochem.) Lectr.

Koch, A. C. E., L.M.S. Demr.

Psychological Medicine

Senanayake, I. A., M.R.C.S., L.R.C.P., D.P.M. Lond., L.M.S. Lectr.

Public Health

Chellappah, S. F., O.B.E., L.R.C.P. Lond., M.R.C.S. Eng., D.P.H. Lectr.

Dasgupta, B. C., M.B., B.S. Calc., M.R.C.P. Irel., D.P.H., D.T.M. & H. Lond. Asst. Lectr.

Radiology and Electrotherapeutics

Gunewardena, H. O., M.B. Lond., M.R.C.S., L.R.C.P., D.M.R.E. Lectr.

Surgery

Paul, M., M.B., M.S. Lond., M.R.C.P., F.R.C.S. Prof.

Lecturers

de Silva, A. M., F.R.C.S., L.R.C.P.

Jayasuriya, J. H. F., F.R.C.S., L.R.C.P., L.N.S.

Gabriel, V., F.R.C.S., M.R.C.P., L.M.S.

Van Rooyan, C. A., M.R.C.S., L.R.C.P., L.M.S.

Peiris, M. V. P. (also Oper. S.).

Surgery, Clinical

The Visiting Surgeons of the General Hospital

Surgery, Dental

Balendra, W., L.D.S., M.R.C.S., L.R.C.P., L.M.S. Lectr.

Surgery, Operative

Peiris, M. V. P., F.R.C.S., L.M.S. Lectr.

Tuberculosis

de Silva, C. I., M.B., B.S. Lond.

Venereal Diseases

Fernando, B. E., F.R.C.S., L.M.S. Lectr.

Apothecary Department.

Anatomy, Elem., and Physiology

Koch, A. C. E., L.M.S. Lectr.

Chemistry

Fonseka, E. L., M.Sc., Ph.D. Lond., A.I.C. Lectr.

Materia Medica

Jayawardena, S. F., M.B., B.S. Lond., M.R.C.S., L.R.C.P. Lectr.

Medicine Clinical,

Wijerama, E. M., M.D., M.R.C.P., D.T.M. & H. Lond., L.M.S. Lectr.

Medicine, Elementary

Leanagé, D. J. T., M.D. Lond., F.R.F.P.S. Glas, M.R.C.P., D.T.M. & H. Lond. Lectr.

Midwifery, Elementary

Wickramasuriya, G. A. W., M.R.C.P., F.R.C.S.Ed., L.M.S. Lectr.

Pharmacy

Pinto, C. F. X., M.P.S. Lectr.

Public Health

de Costa, M., M.R.C.S., L.R.C.P., D.P.H. Camb., L.M.Rot. Lectr.

Surgery, Clinical

Jayasuriya, J. H. F., F.R.C.S., L.R.C.P., L.M.S. Lectr.

Surgery, Elementary

Sinnatamby, G. S., F.R.C.S., L.M.S. Lectr.

Dental School

Dental Anæsthesia

Cramer, S. L., L.R.C.P. & S., L.D.S. Edin., L.F.P.S. Glas., L M S. Lectr.

Dental Histology and Histo-Pathology

Karunaratne, Prof. W. A. E., M.D. Lond. Lectr.

Dental Mechanics

Gomes, A. A., F.R.C.S.I., D.P.H., L.D.S., L.M.S. Lectr.

Dental Metallurgy

Cramer, S. L. (v. D. Anæsthesia) Lectr.

Dental Prosthesis

Gomes, A. A. (v. D. Mechanics) Lectr.

Dental Radiology

Gunawardena, H. O., M.B., B.S. Lond., M R.C.S, L.R C.P., D.M.R.E. Lectr.

Dental Surgery and Pathology

Cramer, S. L. (v. D. Anæsthesia) Lectr.

Human and Comp. D. Anatomy and Physiology

Hill, Prof. W. C. O., M D. Birm., F.L.S. Lectr.

Operative Dental Surgery

Balendra, W., M.R C.S., L.R.C.P., L.D.S. Eng., L.M.S. Lectr.

Orthodontia

Balendra, W. (v. Operative Dental Surgery) Lectr.

GENERAL INFORMATION

The College, founded in 1870, is controlled by a Council composed of members nominated from the teaching staff of the College, together with the Government Assessor and one member nominated from the Med. Profession generally.

The Medical Dept. provides a 5 yrs.' course for the L.M.S. (Ceylon) which entitles the holder to registration by the General Medical Council. Admission to the L.M.S. course is open only to students who are at least 17 yrs. of age and have passed the London matric. examn. or an exempting examn. and a special examn. in Chemistry, Physics and Biology. The Pre-medical course

is given at Ceylon Univ. Coll., v. *supra*. The Apothecary Dept. provides a 2-yr. course to qualify students for the post of Government Apothecary or Estate Dispenser. Students who successfully complete the course are also entitled to practise as Pharmacists.

A Dental School was added in 1938. At present it provides a 2-yr. course leading to the L.D.S. (Ceylon) for postgraduate medical students only. It is intended later to provide the full dental curriculum.

SCHOLARSHIPS, ETC. *The Rustomji Jamshedji Jejeebhoy Scholarship*, Rs. 400 p.a., to be held for a period not exceeding 5 yrs., open to natives of Ceylon and India, of either sex, not over 21, resident in Ceylon, who are physically fit for the Med. profession. *The Dr. W. H. de Silva Scholarship*, value about Rs. 250, usually awarded every 2 yrs. Open to any person born in Ceylon, irrespective of sex or race, under 24 on Oct. 1 in year of election. *The Dr. de Hoedt Scholarship*, tenable for full period of pre-medical and medical curriculum. Open only to children of members of Dutch Burger Union of Ceylon. Also Government and College scholarships, exhibitions, prizes and medals.

FEES. Tuition fee, Rs. 500 p.a. in the Medical and Apothecary Depts. In the Dental School the fee is provisionally Rs. 300 p.a.

TERMS. Oct. 1–Dec. 21, Jan. 3–March 31, May 1–July 31.

PUBLICATION. *Calendar* (October).

THE YEAR 1937–38. No return.

COLLEGE OF AGRICULTURE, MAURITIUS

Founded 1923

PRINCIPAL AND CHAIRMAN OF ADVISORY BOARD—G. E. BODKIN, B.A., Dip. Agric. Camb.

REGISTRAR—M. KŒNIG, A.Inst.P.

LECTURERS

Agronomy—O'Connor, C. A.

Animal Husbandry and Vet. Science—Lionnet, E., Dr. Vet. Paris; Lefébure, Y.

Biology and Entomology—Jepson, W. F., B.Sc. Lond., A.R.C.S., Ph.D. Camb.; Moutia, A.

Book-keeping—Nicolin, H.

Botany and Mycology—Wiehe, O., B.Sc. Lond., A.R.C.S.; Orian, G.

Chemistry—Lincoln, R., M.A. Camb.; Berchon, F.

Physics—The Registrar.

Plant Ecology—Wiehe, O., B.Sc. Lond., A.R.C.S.

Sugar Technology—Baissac, L., F.C.S.

Surveying and Agric. Engineering—Avice, R., A.R.T.C.

GENERAL INFORMATION

The College is administered as an integral part of the Department of Agriculture of the Colony. The cost of the building (opened Jan. 1925) and equipment was £14,000. Experimental fields and farms cover 60 acres. Laboratories provide accommodation for research in Chemistry, Entomology, Botany, Mycology, Physics, and Sugar Technology. Athletic grounds are attached to the College.

A 3 yrs.' course leads to the Diploma of the College. Short courses in the inter-crop period are provided for estate employees and special courses for agricultural and sugar-house chemists. The examns. of the City and Guilds of London Institute in sugar technology are held at the College.

The College year begins in April.

Minimum age for admission, 18. Entrance Examn. in English, French, Chemistry, and Maths. Holders of Matric. certificate of any British University are excused those subjects which appear on their matric. certificate.

Tuition fee for British subjects not natives of Mauritius, £20 p.a.

THE YEAR 1937–38

STUDENTS. Full-time, 19. Part-time, 5.

DIPLOMAS (in Agric.), 6.

MEMORIAL UNIVERSITY COLLEGE, ST. JOHN'S, NEWFOUNDLAND

Founded 1925

VISITOR—H.E. THE GOVERNOR.

PRESIDENT-EMERITUS—J. L. PATON, M.A.

PRESIDENT—A. G. HATCHER, M.A. McG., LL.D. Mt. All., LL.D. Dal.

REGISTRAR—Miss M. G. MANSFIELD.

TEACHING STAFF

PROFESSORS. The President (Maths.); Hunter, A. C., M.A. Ox., B.A. Lond., D. ès L. Paris (English and French); Harling, R. T., M.A. Calif., B.Sc. Lond. (Physics); Powell, E. C., M.A. Sask., Ph.D. McG. (Education); Fraser, A. M., M.A. Edin. (Hist. and Econ.); Lovett-Janison, P., B.Sc. Sheff., M.A. Col. (Chem.). Assoc. PROFESSORS: Lodge, Helen, B.A. Mt. All., M.A. Columbia (Education); Templeman, W., B.Sc. Dal., M.A., Ph.D. Tor. (Biol.); Gillingham, A. G., B.A. McG., M.A. Ox. (Classics and German); Hayes, St. C. J., B.A. Dal., B.Sc. N.S. Tech. Coll. (Engin.). LECTURER: Baird, Edna, B.A. Dal., B.H.Sc. McG. (Household Sci.).

OTHERS. Hunter, Mrs. A. C. (Spanish and French); Organ, Sadie L., B.A. McG., M.A. Mich., Librarian and Lectr. (Maths.); Summers, Georgina, B.A. St. F. X. (Latin); Kennedy, Miss K., B.Sc. St. F. X., Demr. (Biol.); Duder, R., B.A. McG., M.A. Ox. (Mod. Lang.); Smith, Elizabeth (Art); O'Keefe, Zita (Educ.).

GENERAL INFORMATION

The College, built by the Govt. as a War Memorial, was opened in 1925.

The curriculum covers the first 2 yrs. of the Univ. Courses in Arts, Pure Sci., Med., and the first 3 yrs. in Engin. and Agriculture. To students who have completed the work for the first and second years in the Coll. third-year status is granted by the following Univs.: (1) All the Univs. of the maritime Provs. (2) Toronto, in Arts. (3) Columbia, Harvard. (4) McGill, in Agriculture and Household Science. A one-year course in Teacher-Training is given to some 100 students duly matriculated.

The College Year is divided into two semesters, Sept.–Feb., Feb.–June.

ADMISSION. High Pass Standing in the Grade XI. examns. of the Newfd. Council of Higher Educn., conducted by Common Examining Bd. of Maritime Provinces and Newfd., or equivalent.

FEES. For full course, $60 p.a.

EXTRA-MURAL AND EXTENSION COURSES are provided in most Arts and Science subjects, also in Navigation, Dietetics, Music, Health, Pharmacy, Household Science, Chemistry for Nurses, Economics. Seminars and study-groups for school-teachers, scientific workers, and others.

A SUMMER SCHOOL, specially designed for teachers, is held in July and August.

LIBRARY, 9000 vols.

SCHOLARSHIPS. Three Leaving Scholarships of $300 for students of the College completing their studies elsewhere have been specially endowed. A students' Loan Fund has been founded. The Carnegie Corporation have made grant of $7500 to the Trustees to enable them to make grants in aid to students in the Coll.

Acadia offers annually one scholarship of $125, and Mt. Allison one of $125 and one of $62.50. These scholarships are tenable for 2 yrs. Dalhousie offers annually one scholarship of $200, tenable for one year.

Students having completed 2 yrs. at the College are eligible for Rhodes Scholarships.

THE YEAR 1937–38

BENEFACTIONS. Gift of Music Appreciation Set from the Carnegie Corporation of New York.

DEVELOPMENTS. Medical examination and subsequent care given to all Teachers in Training by Government Dept. of Health.

VISITS OF MEMBERS OF STAFF. Professor Fraser went to Australia as representative of Newfoundland branch of the Royal Institute of International Affairs, to attend the Empire Conference. The Librarian spent a year abroad on special grant from Carnegie Corporation of New York.

RESIGNATION. Miss A. M. Kent.

STUDENTS. Full-time: 263. Summer School: 407. Evening Classes: 250.

KING EDWARD VII. COLLEGE OF MEDICINE, SINGAPORE

Founded 1905

PATRON—H.E. Sir SHENTON THOMAS, K.C.M.G., O.B.E., Governor, Straits Settlements, and High Commissioner, Federated Malay States.

PRESIDENT OF COUNCIL—The Hon. R. D. FITZGERALD, M.C., M.D. Dub., D.T.M. & H. Camb.

PRINCIPAL—G. V. ALLEN, M.D., B.Ch., B.A.O. Belf., D.T.M. and H. Lond.

TEACHING STAFF

Anæsthetics

Murrell, E. B., B.Ch. Camb., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

Anatomy [Prof.

Fell, W. A., M.A., B.Ch. Camb.

Thevathason, A. W. S., L.M.S. Asst.

Bacteriology

Young, W. A., B.Sc., M.B., B.S. Lond., D.T.M. and H. Lond., M.R.C.S. Eng., L.R.C.P. Lond. Prof.

Sen, N. K., M.B. Calc. Asst.

Biochemistry

Rosedale, J. L., Ph.D. Bonn, D.Sc. Aberd., F.I.C. Prof.

Oliveiro, C. J., L.M.S. Asst.

Chong, Leong Peng, Ph.D. Camb. Asst.

Biology [Prof.

Gater, B. A. R., M.A. Camb., D.I.C.

Sandosham, A. A., L.M.S. Asst.

Chemistry

(*See* Raffles College, Singapore).

Infectious Diseases

Hawes, R. B., M.B., B.S. Lond., F.R.C.P. Lectr.

Medicine

Hawes, R. B., M.B., B.S. Lond., F.R.C.P. Prof.

Ransome, G. A., M.R.C.S., M.R.C.P. Assoc. Prof.

Haridas, G., M.R.C.P. Lond., L.M.S. Tutor.

Smith, C. E. Tutor.

Monteiro, E. S. Tutor.

Mental Diseases

Home, B. F., L.R.C.P., L.R.C.S. Ed., L.R.F.P.S. Glas. Lectr.

Midwifery and Gynæcology

English, J. S., B.A., M.D., B.Ch., B.A.O. Dub., L.M. Rotunda, F.C.O.G. Prof.

Sheares, B. H., L.M.S. Tutor.

Otology, Laryngology, Rhinology

Johns, B. M., M.B., Ch.B. N.Z., F.R.C.S. Ed. Lectr.

Pathology and Forensic Medicine

Hopkins, H. O., M.A., M.R.C.S., L.R.C.P. Prof.

Balasingham, T., L.M.S. Asst.

Pharmacy

Roebuck, T., Ph.C., M.P.S. Lectr.

Caldwell, A. F., B.Pharm., Ph.C., M.P.S. Asst. Lectr.

Physics

(*See* Raffles College, Singapore).

Physiology and Pharmacology

MacGregor, R. G. M. S., B.M., B.Ch. Ox., M.R.C.S., L.R.C.P. Lond. Prof.

Lye, Loh Guan, L.M.S. Asst.

Public Health

Scharff, J. W., B.A., M.D., B.Ch., B.A.O. Dub., D.T.M. & H. Lond. Lectr.

Faris, D. W. G., M.B., B.S., D.P.H. Lond. Demr.

Radiology

Webster, J. S., M.B., B.S., D.P.H. Vict., D.M.R.E. Camb. Lectr.

Surgery

Monro, J. K., M.D., M.R.C.P., F.R.C.S. Prof.

Jumeaux, C. V. Tutor.

Surgery, Clinical

Mekie, D. E. C., M.B., Ch.B. Ed., F.R.C.S. Ed. Prof.

Chong, Tat Seong, L.M.S. Tutor.

Surgery, Dental

Tratman, E. K., M.D.S., L.D.S. Brist. Prof.

Softley, J. W., B.D.S. Liv. Lectr.

Venereal Diseases

Kelly, R. W. C., M.R.C.S. Eng., L.R.C.P. Lond. Lectr.

GENERAL INFORMATION

The Coll. is a Government institution, partly endowed by public subscription, managed by a Council of Govt. officials and private members, with the Director of Medical and Health Services as President, advised by a Senate composed of the professors and lecturers with the Principal as Chairman. Since its foundation 277 licentiates have passed out. It owes its name to a large donation from a King Edward VII. Memorial Fund, which enabled the Council in 1913 to endow a Chair of Physiology.

The *Diploma* in Medicine, Surgery, and Midwifery was recognized by the General Medical Council in 1916. The Course extends over 6 yrs.

Admission qualifications: (1) The Cambridge School certificate, with English (special Malayan paper), another language, and Maths. as compulsory subjects, and two of the following—Hist., Geog., Chem., Physics, Bot., Expl. Sc., Applied Maths.; or (2) certificates of equivalent standard, *e.g.* London Matricn., recognized by the General Medical Council as qualifying for registration as Med. students. Candidates must be of good physique.

DENTAL SCHOOL. The School was started in 1928. The course covers 5 yrs. The Diploma in Dental Surgery is registrable in Malaya.

PHARMACY COURSE. A course for the training of Pharmacists was started in Oct. 1935. The course covers a 3 yrs.' pupilage under an approved Pharmacist and 1 yr.'s course of systematic lectures and practical classes in the College. The Diploma in Pharmacy is registrable in Malaya.

TERMS. Trinity—June 1 to Aug. 31; Michaelmas—Oct. 1 to Dec. 20; Lent—Jan. 3 to March 31.

TUITION FEES. $300 p.a.

RESIDENCE, ETC. Hostels for 148 students. There is a Students' Union.

PUBLICATIONS. *Calendar* (June); *Annual Report.*

THE YEAR 1937–38

The fifth international malaria course under the auspices of the League of Nations was held in the College from 19th April to 28th May 1938.

STUDENTS. Full-time: 1937-38, 167.

DIPLOMAS. L.M.S. (Singapore), 15; L.D.S. (Singapore), 8.

RAFFLES COLLEGE, SINGAPORE

Founded 1928

PATRON—H.E. THE GOVERNOR OF THE STRAITS SETTLEMENTS.

PRESIDENT—The Hon. Mr. ALEXANDER KEIR, Acting Director of Education.

PRINCIPAL (part-time)—G. McOWAN, M.A., B.Sc., Ph.D. St. And., F.I.C.

SECRETARY—W. G. McINTOSH.

TEACHING STAFF

Chemistry

McOwan, G., M.A., B.Sc., Ph.D. St. And., F.I.C. Prof.
Owen, C. T. J., B.Sc. Brist., A.I.C. Lectr.
Kiang, Ai Kim. Demr.

Economics

Silcock, T. H., B.A., D.Phil. Ox. Prof.

Education

Amon, H., M.C., B.A. Lond. Prof.

English Lang. and Lit.

Casson, L. F., M.A. Adel., B.Litt. Ox. Johore Prof.
Hough, G. G., B.A. Liv. and Camb. Lectr.

Geography [Reader.

Amon, Prof. H. (also Educn.)
Dobby, E. H. G., B.A. Lond. Lectr.

History

Dyer, W. E., M.A. Ox. Prof.
Harrison, B., M.A. Dub. Lectr.

Mathematics

Oppenheim, A., B.A. Ox., Ph.D. Chic. Prof.
Cooke, J. C., B.A. Ox. Lectr.

Physics

Alexander, N. S., M.Sc. Ph.D. Camb. N.Z., Prof.
Webb, C. G., B.Sc. Lond. Lectr.
Non, L. Y. S. Demr.

GENERAL INFORMATION

This is a non-Government institution, endowed partly by the Straits Settlements and some of the Malay States and partly by public subscription, managed by a Council of Government officials and private members and advised by a Senate composed of the Professors, with the President as Chairman. It was opened in June 1928.

ADMISSION. Students are admitted to the College only after they have reached the age of seventeen, although exceptions may be made for students who have reached the age of sixteen and can furnish a special recommendation from their schools.

Before admission all students must be examined as to physical fitness, and will be accepted only if their standard of health is good. To qualify for admission, students must submit a certificate of character from their last school, and must have passed one of the following examinations: (*a*) The Malayan Cambridge Certificate or the ordinary Cambridge Certificate examination, with a pass with credit in English and three of the following subjects: Hist.,

Geog., Latin, Elem. Maths., Additional Maths. (if a credit pass has been obtained in Elem. Maths.), Chem., Physics, General Sci., Bot., Art, any approved language; (*b*) The Final Examination for a degree in Arts or Science in any University of the United Kingdom or British Dominions; (*c*) The Matriculation Examination of any University in the United Kingdom or British Dominions; (*d*) Any other examination specially approved by the Senate of Raffles College.

Persons not members of the College may be admitted, with the approval of the President, to attend a course of lectures on any subject.

Diplomas are given to students who successfully complete a 3 yrs.' course at the College. The standard of instruction aimed at is that of the first degrees in Arts and Science at the Univ. of London. Students may, if they desire, study for the external degrees of B.A. or B.Sc. of that Univ.

TERMS. Trinity—June 16–Aug. 25; Michaelmas—October 6–December 15; Hilary—January 5–March 16.

FEES for tuition, $300 p.a. ($1 = 2s. 4d.); board and lodging, $300 p.a.

RESIDENCE. There are Halls of Residence for 98 male students.

SCHOLARSHIPS. One post-graduate scholarship, £500 p.a. for 2 yrs., to enable a student of Chinese race or descent to visit and continue his studies at any Univ. or Univs. in Gt. Britain or Ireland approved by the President. The John Anderson Scholarship, awarded from time to time to British subjects of any race or creed of either sex born in the Straits Settlements or Federated or Unfederated Malay States, to enable the scholar to study at Raffles College. The scholarship is awarded for 3 yrs. The Singapore Bar Committee Scholarship, $900 p.a. for 3 yrs., founded in memory of members of the Singapore Bar killed in the Great War and awarded to the son or daughter of parents who are or have been employed in the legal profession in Singapore. The Kelantan Scholarship, $720 p.a. for 3 yrs., awarded to a student of either sex born in Kelantan and educated during his or her early years in Kelantan. There are awarded annually by the College ten entrance scholarships of $720 p.a. tenable for 3 yrs., and a number of Exhibitions tenable for 1 and 2 yrs.

PUBLICATION. *Calendar* (February).

THE YEAR 1937–38

BENEFACTIONS. Carnegie Foundation of New York, an electric gramophone with over six hundred records.

NEW DEVELOPMENTS. A further staff dwelling-house and grounds adjacent to Coll. buildings. The Singapore Bar Committee Scholarship and the Kelantan Scholarship were awarded for the first time.

RESIGNATION. Prof. F. J. R. Bottrall (English), on appointment as Asst. Director and Prof. of English at the British Institute of Florence, Italy.

STUDENTS. Full-time: 154. Part-time: 5. In addition, 50 first yr. medical and dental students from the King Edward VII. College of Medicine attend Raffles College for instruction in Chemistry and Physics.

THE IMPERIAL COLLEGE OF TROPICAL AGRICULTURE, ST. AUGUSTINE, TRINIDAD, B.W.I.

Founded 1921

Cable Address: " Stomata," Port-of-Spain.

PRESIDENT—Lieut.-Col. Sir DAVID PRAIN, C.M.G., C.I.E., LL.D., F.R.S.

CHAIRMAN OF THE GOVERNING BODY—ERIC MACFADYEN, J.P.

VICE-CHAIRMAN—Sir DONALD CAMERON, G.C.M.G., K.B.E.

PRINCIPAL—ODIN TOM FAULKNER, C.M.G., B.A., Dip.Agr. Camb.

DEAN—G. G. GIANETTI, M.A., Dip.Agr. (Econ.) Camb.

COMMISSIONER OF AGRICULTURE—G E. JONES, C.M.G., Dip Agric. Bangor.

ASSISTANT COMMISSIONER OF AGRICULTURE—C. C. SKEETE, B.A. Camb.

SECRETARY—Sir ALGERNON ASPINALL, C.M.G., C.B.E., B.A., 14 Trinity Square, London, E.C.3.

REGISTRAR, EDITOR, AND LIBRARIAN—G. G. GIANETTI, M.A., Dip.Agr. (Econ.) Camb.

BURSAR—G. R. LANGDALE, A.C.A.

TEACHING STAFF

Agriculture

Harrison, E., C.M.G., B.Sc. Edin., M.S.A. Iowa, N.D.A. Prof.
Paterson, D. D., B.Sc. Agric. and For. Edin. Reader.
Evans, L. J. C. Student Demr.

Botany and Genetics

Cheesman, E. E., M.Sc. Lond., A.R.C.S. Prof.
Dodds, K. S., B.Sc., Ph.D. Lectr.
Spencer, G. E. L., D.I.C.T.A. Horticulturist.

Chemistry and Soil Science [Prof.
Hardy, F., M.A., Dip.Agr. Camb.
Humphries, E. C., B.Sc., Ph.D. Lectr.
Rodrigues, G., A.I.C. (Chemistry) Analyst.

Economics

Shephard, C. Y., B.Sc. (Econ.), Ph.D. Lond. Prof.

Mycology and Bacteriology

Baker, R. E. D., B.A. Camb., A.I.C.T.A. Officer in Charge.
Crowdy, S. H., B Sc. Lond., A.R.C.S. Lectr.

Sanitation and Tropical Hygiene

Dickson, J. R., O.B.E., B.Sc., M.B., C.M. Edin., D.P.H. Eng., D.T.M. Liv. Med. and Health Officer.

Sugar Technology

Davies, J. G., A.I.C.T.A. Sugar Technologist.

Veterinary Science

Metivier, Capt. H. V. M., O.B.E., B.Sc.Vet.Sc. Lond., M.R.C.V.S. Lectr.

Zoology and Entomology

Adamson, A. M., M.A., B.Sc., Ph.D. Calif. (Entomol.) Reader in charge.

Callan, E McC., B.Sc. Manc., A.R.C.S. Lectr.

Low Temperature Research

Wardlaw, C. W., D.Sc., Ph.D. Glas.

Leonard, E. R., B.Sc., A.R.C.S. Lond.

Barnell, H. R., B.Sc., Ph.D.

Cacao Research

Cope, F. W., B.Sc. Lond., A.R.C.S.

GENERAL INFORMATION

Incorporated in Sept. 1921 and reincorporated by Royal Charter on Nov. 23, 1926, the College aims at promoting the study of and conducting research in tropical agriculture in suitable surroundings and creating a body of British expert agriculturists well versed in the knowledge of the cultivation of land in the tropics, of chemists, and of scientific advisers possessing an intimate knowledge of the means of combating pests and diseases The College buildings are at St. Augustine, near St. Joseph, Trinidad, on land granted by the Govt. of Trinidad and Tobago. The Imperial Dept. of Agric., which was founded in 1898 and was amalgamated with the Coll. on April 1, 1922, is now known as the Agricultural Advisory Dept. of the College, and is administered by the Commissioner of Agriculture. The post of Commissioner of Agriculture was separated from that of Principal of the Coll. as from April 1, 1927. The Commissioner serves as a liaison officer between the Coll. and the several island govts. He supervises the botanic and experiment stations located at St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands. The College acts in a consultative capacity to the Govts. of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda in agricultural matters, including the teaching of agric. in schools. The staff was strengthened by the appointment on July 1, 1929, of an Asst. Commissioner of Agriculture. The headquarters of the Dept. were transferred to Trinidad in Sept. 1922.

The foundation stone of the new buildings and laboratories was laid by Sir Samuel Wilson, Governor of Trinidad and Tobago, on January 14, 1924. An Instructional and Experimental Sugar Factory, towards which British sugar machinery manufacturers contributed plant worth £20,000, was opened in 1925. A Low Temperature Research Station for work on bananas and other tropical fruits was completed in September 1929. An Agricultural Field Office, and a new Chemical Block, in which the Dept. of Sugar Technology is also housed, were completed in August 1929. The Milner Hostel and College Dining Hall were completed in 1927. A Cacao Research Scheme was inaugurated in 1930. This is financed by contributions from the main cacao-growing Colonies and from some of the more important British cocoa and chocolate manufacturers. A Plant Quarantine Station to serve the British West Indies, British Guiana and British Honduras was completed in 1933.

The income of the College is derived from contributions by the principal West Indian colonies, Nigeria, the Gold Coast, Sierra Leone, the Imperial Government, the Empire Cotton Corporation, and the British Cotton Growing Association.

The academic year extends from October 1 to June 30.

COURSES. (1) A 3 yrs.' course leading to a *Diploma* (Dip. Agric.

I.C.T.A.) either (*a*) in Agriculture or (*b*) with special qualifications in Sugar Technology; designed primarily to give instruction in West Indian agriculture; admission is limited to students from the Caribbean area, save in exceptional circumstances.

(2) A one-year course leading to the *Associateship* of the College, open to postgraduate students and to Colonial Office cadets selected for the Colonial Agricultural Service.

(3) A one-year course leading to the *Associateship* with special qualifications in Sugar Technology, open to postgraduate students with previous training in Sugar Technology.

(4) Refresher and other courses by arrangement.

POSTGRADUATE RESEARCH. Facilities are provided for work in connexion with problems arising in tropical agriculture, and more especially those connected with entomology, plant pathology, agronomy, physiological botany, and sugar technology.

TUITION FEES. Diploma Courses, £50 p.a., but a limited number of students from contributing Colonies and industries are admitted, on the nomination of the respective local Govts. and industries, without the payment of tuition fees; other students from contributing Colonies, £25 p.a.; Foreign Students, £100 p.a. Associateship and Refresher courses, £75 p.a.

EXPENSES. The following figures are given as an approximate estimate for students coming from a country to which they cannot return for the long vacation: Living, $60 (£12 : 10s.) per mth.; 1st and 2nd yrs. 12 mths. (each £150); 3rd yr. 9 mths. (£112 : 10s.). Subscriptions, say £5 p.a. Books, tours, pocket money, etc., a minimum of £60 (1st yr.), £75 p.a. (2nd and 3rd yrs.). To these must be added the College fees above set out, and also cost of passage to Trinidad in the first, and from it in the third year. In the case of students attending the College for one year, the expense will be approx. that of the third year, with the cost of return passage added.

STUDENTS FROM INDIA AND FOREIGN COUNTRIES. Applications from Indian students for admission to post-graduate and special courses should be submitted through the High Commissioner for India.

The Academic Board will consider applications from students who are not British subjects on their producing evidence of having attained a standard equivalent to that prescribed by the regulations and of possessing an adequate knowledge of English. Such applications should be made through a British Consul, whose recommendation should also be obtained.

PUBLICATIONS. *Prospectus; Principal's Report; Tropical Agriculture* (monthly); *Memoirs* and *Reports*.

THE YEAR 1937–38

NEW BUILDINGS. Considerable extensions made to Low Temperature Research Station, where additional lab. space and facilities for pursuit of biochem. and physiolog. studies provided.

NEW POST. Post of Horticulturist created in Dept. of Chem. and Soil Science.

RETIREMENTS. Sir Geoffrey Evans (Principal), on appt. as Economic Botanist at Kew; Professor R. Cecil Wood (Agric.).

EXTRA-MURAL WORK. Visits of College officers to neighbouring colonies in the Caribbean area.

STUDENTS. Full-time, 44; graduates, 14; preparing for diploma, 29; special course, 1.

DIPLOMAS. 6.

ASSOCIATESHIPS. 12.

APPENDICES

PAGE

I. QUALIFICATIONS FOR ADMISSION TO A FIRST DEGREE IN THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND 838

II. POSTGRADUATE SCHOLARSHIPS, ETC., AND GRANTS FOR ADVANCED STUDY AND RESEARCH . . 870

III. CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION 919

IV. PROFESSIONS AND CAREERS FOR WHICH UNIVERSITY STUDIES ARE A FITTING PREPARATION. CONDITIONS OF ENTRY TO OR OF QUALIFICATION FOR PROFESSIONAL DIPLOMAS OR MEMBERSHIP OF PROFESSIONAL INSTITUTIONS 991

1. His Majesty's Forces. 2. Accountants, Actuaries, etc. 3. Agriculture, Dairying, Horticulture, etc. 4. Architecture. 5. Auctioneers and Estate Agents. 6. Bankers. 7. Chemistry. 8. Engineers—Civil, Electrical, Mechanical, etc. 9. Industrial Administration. 10. Law—Barristers, Solicitors, etc. 11. Medicine and Surgery, etc. Medical and Dental Qualifications and Admission to Schools of Medicine and Dentistry. Post-graduate Medical Studies. Royal Colleges, Societies, etc. 12. Mining and Metallurgy (including Mining Engineering, Petroleum, etc.). 13. Ministry of the Churches. 14. Patent Agents. 15. Pharmaceutical Chemistry. 16. Physics. 17. Public Administration. 18. Secretaries. 19. Surveyors. 20. Textile Institute. 21. Teachers—Training, Interchange, Registration, etc. 22. Government Services—home and overseas.

V. LIBRARY FACILITIES AND LIBRARIANSHIP . . 1060

VI. STUDENT ORGANIZATIONS, BUREAUX OF INFORMATION AND OTHER ASSOCIATIONS . . . 1063

VII. STUDENTS FROM OTHER COUNTRIES IN UNIVERSITIES OF GREAT BRITAIN AND IRELAND . . 1069

VIII. UNIVERSITIES OF THE UNITED STATES OF AMERICA 1071

IX. ANGLO-AMERICAN RELATIONS—PROFESSORSHIPS . 1074

X. INTERNATIONAL FEDERATIONS 1075

XI. SHORT BIBLIOGRAPHY 1080

I

QUALIFICATIONS FOR ADMISSION TO A FIRST DEGREE IN THE UNIVERSITIES OF GREAT BRITAIN AND IRELAND

GENERAL OUTLINE

This Appendix relates only to the admission of students proposing to take full courses for a First degree.* A comparison of the university regulations regarding admission discloses a general agreement in principle, with divergencies in application. Before inserting a student's name *in matricula* all Univs exact evidence that the applicant's intellectual equipment fits him to undertake a course of study for a degree. This is tested either by a matric. examn. held by the Univ. or group of Univs. concerned, or by the candidate's performance in an equivalent examn. Many of the Oxford and Cambridge Colleges require would-be entrants to pass a College examn. in addition to satisfying the Univ. entrance requirements. Bristol has discontinued its matricn. examn. as superfluous in view of the institution of the School Certificate and Higher Certif. examns. and the admission to them of candidates not presented by schools. Durham has followed Bristol's example so far as the Newcastle Division is concerned. Reading holds neither school examns. nor, except for candidates of mature years (23 or over), a matriculation examn., accepting, instead, credentials required by London or the Joint Matricn. Board of the Univs. of Manc., Liv , Leeds, Sheff. and Birm.

A Matriculation Examination for persons of mature years has been instituted by the above-mentioned Joint Board, and by London, Durham (King's College), Belfast, and Reading (*see* thereunder).

SCHOOL EXAMINATIONS.—ENGLAND AND WALES. A scheme originated by the Board of Education in consultation with all the Univs. of England for co-ordinating Secondary School examns. came into operation in England in 1918 and in Wales in 1920. Under this scheme the following are recognized by the Board—

I. As approved " First Examinations," suitable for pupils about the age of 16, the standard being such that a Pass with Credit in a certain number of subjects (generally 5) in the three main groups of School

* For conditions regulating the recognition of study at other Universities and admission for Higher degrees *see* pp. 7-14 and under the several Universities.

Students desiring to study in a University without intending to graduate are generally admitted if they satisfy the authorities that they are qualified to profit by the course of study they propose to take, and if accommodation is available for them. *See also* pp. 66 and 273.

subjects (English subjects, Foreign Languages, Mathematics, and Science) would entitle a candidate to admission to a Univ. :—

School Certificate examns. of the Oxford and Cambridge Schools Examn. Board, of the Oxford Delegacy for Local Examns. and the Cambridge Local Examns. Syndicate (formerly known as Senior Local examns.), of the Univs. of Bristol and Durham, and of the Joint Matricn. Board of the Univs. of Manc., Liv , Leeds, Sheff. and Birm. ; the General School examn. of London ; and the School Certificate examn. of the Central Welsh Board.

In addition to the three groups of subjects above mentioned, First Examinations include a fourth group of optional subjects, such as Music, Drawing, Manual Work, Needlework, Housecraft. Excellence in these subjects will not exempt a candidate from the necessity of reaching a minimum standard in each of the other groups.

II. As approved Second Examinations, suitable for pupils about 2 years older, framed on the assumption that the candidate has, after the stage marked by the first examn., followed a more specialized course : —The Higher Certificate examns. of the Oxford and Cambridge Schools Examns. Board, Bristol, Durham, the Joint Matriculation Board, London, Oxford Delegacy for Local Examns., Cambridge Local Examns. Syndicate, and the Central Welsh Board.

With a view to securing equality of standard and the acceptance of the certificates by Univs. and Professional Bodies, the Board of Education exercises a co-ordinating authority with the help of a Secondary School Examinations Council composed of 30 representatives of the Examining Bodies, County Councils Assocn., Assocn. of Municipal Corporations, Assocn. of Education Committees, and Teachers' Registration Council under a Chairman appointed by the Board of Education. The Examinations Council keep in close touch with the Examining Bodies and conduct a regular scrutiny of their statistics, regulations, and syllabuses. In addition a detailed investigation of the methods and standards of award is held from time to time. Provision is made for ensuring that teachers in the Schools are brought into touch with the Examining Bodies ; that a School is examined, if it so desires, on its own syllabus, unless the Examining Body considers it inadequate ; and that estimates of the merits of their candidates in each of the subjects offered by them, if submitted by Head Masters and Head Mistresses, are taken into account in the award of certificates.

Schools are not required as a condition of recognition for grants from the Board of Education to take these examns., but Schools on the grant list entering pupils for them under conditions approved by the Board receive an additional grant in respect of the examn. fees of each pupil so entered. The entrance of pupils attending grant-earning secondary schools for any examination below the stage of a First Examn. is closely restricted.

Among the functions of the Secondary School Examns. Council is negotiation with Univs. and Professional Bodies for the acceptance of the examn. certificates as exempting the holders from certain other examns. They are now accepted, subject to various qualifications, by all English Univs. and by a number of professional bodies (*see*

Appendix IV.), as exempting from entrance examns. The Second Examinations are also recognized by many Univs. for exemption from Intermediate Examns. and for admission to Honours courses, etc.

The Higher School Certificate qualifies for exemption from the Intermediate degree examns. in the faculties of arts, pure science, and applied science, subject to certain conditions, at Durham and Bristol; also from the First Examn. (Pre-clinical) in the Faculty of Medicine at Durham, subject to rules in regard to subjects selected; in science and engineering at Liverpool; in arts, science, engineering and metallurgy at Birmingham; from certain courses in arts at Manchester and Leeds; and from the external and internal Interm. examns. in arts, science, economics and commerce of London Univ., either in whole or in part, according to the subjects taken; at Reading, for exemption or partial exemption from the Inter. Examns. in the faculties of letters, science, agriculture and horticulture, subject to certain conditions; at Sheffield,* exemption from the Preliminary Examn. in Chemistry and Physics for medical students and Pre-Registration Examn. in Chemistry and Physics for dental students may be obtained by students who have satisfied the examiners in Chemistry, theoretical and practical, and Physics, theoretical and practical, taken as two full group subjects in the Higher School Certificate Examn. (*See* below under each Univ. or group of Univs.)

WALES. The School Certificate of the Central Welsh Board showing a pass with credit at one and the same examn. in all the required subjects of the matricn. examn is accepted by the Univ for matricn., so, also, are certifs. of other First Examns. (*See* below.)

SCOTLAND. On December 31, 1918, there came into operation Ordinance No. 70 (General No. 3) of the University Courts of the four Scottish Univs. as to Admission for purposes of graduation. This defines the normal test of fitness as "the production of evidence duly attested by a competent authority of the satisfactory completion of a suitable course of secondary education," and sets up an Entrance Board to regulate the application of this principle. This Board has provided by General Regulations for the recognition of Group Certifs. of the Scottish Education Dept. and, in the case of Schools in Scotland not regularly presenting candidates for these certifs., other evidence of completion of suitable courses. It has similarly provided for the recognition of Leaving or other certifs. in the case of applicants from outside Scotland. The admission of applicants who, owing to exceptional circumstances, have not been able to fulfil the normal conditions is provided for by Special Regns. (*See* below.)

IRELAND. The Leaving Certificate of the Dept. of Education of the Irish Free State or the Senior Certificate of the Ministry of Education of Northern Ireland is accepted by the Univ. of Dublin and the National Univ. of Ireland, subject for subject, in lieu of their matricn. examns., and (subject to special conditions in respect of Maths.) by

* In and after June 1940 medical and dental students seeking exemption from the Pre-Registration Examn. will be required to satisfy the examiners in a third subject chosen from: English, a language other than English, History.

Belfast. Belfast and the N.U.I. also accept, subject for subject, certain other certificates. (*See* below.)

ADMISSION OF STUDENTS FROM THE KING'S DOMINIONS OVERSEAS AND FROM FOREIGN COUNTRIES. As regards a student educated in another country the regulations are drafted on the understanding that the application of the ordinary entrance tests might be inappropriate owing to these tests having been framed with reference to secondary education curricula different from those which obtain in his own country, or to the student having reached a stage in his education at which the passing of ordinary entrance tests would involve a wasteful repetition of preparatory studies. They accordingly provide for the acceptance from such a student of other evidence of academic qualifications: ordinarily, certifs. (*e.g.* Dominion Matriculation examns., Abiturienten-examen, Baccalauréat), which would entitle to admission to a Univ. in the student's own country, together with such further evidence as may be necessary to ensure that no student shall be admitted to a course of study for a degree without a reasonable prospect of his being able to pursue it to graduation; in particular, if the student be one whose mother tongue is not English, evidence that he has a sufficient mastery of this language to enable him to follow courses of instruction conducted in English. When certificates are in a foreign language they should ordinarily be accompanied by a certified English translation. Unless the certificate shows on its face that it would admit the holder to a Univ. in his own country it should be accompanied by an authenticated declaration by a Government official, or Official of an Embassy, Legation or Consulate of the country to which the applicant belongs, testifying that the certificate would entitle the holder to enter on a regular course of study in a Univ. or Technical Coll. affiliated to a Univ. in that country. Intending students should apply for information to the Registrar of the Univ. in which they desire to be matriculated. The regulations are summarized below under each Univ. or group of Univs.

SCHOOL EXAMINATIONS IN OTHER COUNTRIES are also recognized for admission to the Univs. of the United Kingdom. (*See* below under each Univ. or group of Univs.)

SPECIFIC CONDITIONS

Candidates for admission to a University in Great Britain or Ireland, unless they are graduates of a recognized University, must have passed the appropriate Matriculation Examn. of that Univ. or they must have passed an alternative exempting examn. The exempting examns., indicated by a number in this Appendix, are as follows:

1. Oxford Responsions;
2. Cambridge Previous;
3. London Matriculation;
4. Durham Matriculation (for the Durham Colleges);
5. Wales Matriculation;
6. Joint Matriculation Board of the Univs. of Manchester, Liverpool, Leeds, Sheffield and Birmingham Matriculation (if gained before Dec. 1, 1937);

7. Joint Matriculation Board of the Univs. of Manchester, Liverpool, Leeds, Sheffield and Birmingham Certificate, (*a*) Higher, (*b*) School;
8. Oxford and Cambridge Schools Examn. Board's (*a*) Higher, (*b*) School;
9. Oxford Local Examns. Delegacy (*a*) Higher, (*b*) School;
10. Cambridge Local Examns. Syndicate (*a*) Higher, (*b*) School;
11. Bristol Certificate (*a*) Higher, (*b*) School;
12. Durham Certificate (*a*) Higher, (*b*) School;
13. London General School;
14. Central Welsh Board's (*a*) Higher Certificate, (*b*) School;
15. Scottish Education Dept. Leaving Certificate;
16. Scottish Universities Entrance Board Preliminary Examn.;
17. Northern Ireland Secondary School Examn. Senior Certificate;
18. Belfast Matriculation;
19. National University of Ireland Matriculation;
20. Irish Free State Leaving Examn. Certificate;
21. Dublin, Trinity College, Matriculation;
22. Army Education Certificate.

These examns. may be grouped as follows:

Higher School Examns. 7 (*a*), 8 (*a*), 9 (*a*), 10 (*a*), 11 (*a*), 12 (*a*), 14 (*a*).

School Certificates. 7 (*b*), 8 (*b*), 9 (*b*), 10 (*b*), 11 (*b*), 12 (*b*), 13, 14 (*b*), 15, 17, 20.

Matriculation. 1, 2, 3, 4, 5, 6, 16, 18, 21.

In addition certain Universities, *e.g.* those grouped under the Joint Board (No. 6 above), and Durham University, have special regulations for individual faculties (as to the subjects to be taken at the qualifying Entrance Examn.). The Scottish Universities have regulations as to subjects taken at the Entrance Examn. which affect admission to specific classes. The Universities also include certain examns. other than those enumerated above as qualifying for admission. These examns. and the conditions affecting them are referred to in the text below under each University or group of Universities.

JOINT MATRICULATION BOARD OF THE UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD AND BIRMINGHAM

The examns. held on behalf of these Univs. (School Certif. and Higher School Certif. in July, also School Certif. and Higher School Certif. Subsidiary subjects in September) are conducted by a Joint Board. Full information regarding admission to the constituent Univs. is contained in the pamphlet "Qualifications for entry upon a Degree Course," which may be obtained from the Secretary (J. M. Crofts), 315 Oxford Road, Manchester, 13.

I. A candidate is qualified to enter upon a degree course at one of the five Univs. if he holds: (*a*) A School Certif.* showing a pass in

* Certificates awarded on a lower standard of pass in Group II. are not accepted.

English Language and in each of Groups I., II. and III. and a Credit in at least one subject, and (*b*) *either* (i) a Higher School Certif., *or* (ii) a certifying letter that he has passed at one and the same Higher School Certif. Examn. in four approved subjects at or above the Subsidiary standard.

II. The School Certif. Examn.* and the Higher School Certif. Examn. of the following bodies are accepted in addition to those held by the Board :

(i) The Oxford and Cambridge Schools Examn. Board.
(ii) The Oxford Local Examn. Delegacy.
(iii) The Cambridge Local Examn. Syndicate.
(iv) The Univ. of London.
(v) The Univ. of Durham.
(vi) The Univ. of Bristol.
(vii) The Central Welsh Board.

III. A Certificate of having passed any one of the following examns., 1, 2, 3, 4, 5, 16, 17, 18, 19, 21 (v. *supra*, paragraph headed " Specific Conditions ") will be accepted in lieu of a School Certif. under I. above. The Examn. for Trained Certificated Teachers and the Intermediate Certif. Examn., Dept. of Education, Irish Free State, are also accepted for this purpose.

IV. Alternative to the requirements set out in I. above, a candidate is entitled to enter upon a degree course if he holds any one of the following :

A degree conferred by an approved Univ. after examn.
The Leaving Certif. of the Scottish Education Dept. under certain conditions.
The Leaving Certif. of the Dept. of Education, Irish Free State, under certain conditions.
The Matriculation Certif. of a British Overseas Univ.
A Certif. of having passed at one and the same examn. the Intermediate Examn. in Arts, Science or Medicine of an approved Indian Univ.
The Matriculation Certif. of the Palestine Board of Higher Studies.
The Secondary Education Certif. Part II. of the Egyptian Ministry of Education, under certain conditions.
A foreign examn. certif. which entitles him to enter on a Degree course in all Faculties of a recognized Univ. of the country in which the certificate was issued.
A certificate showing that the holder is a Barrister or a Solicitor having passed the Final Examn. of the Law Society (Faculty of Law only).
The Special Army Education Certif. at the Advanced Standard, duly attested.

V. Until November 30, 1942, candidates will be admitted to a Degree course in Law (LL.B.), or in Architecture (B.Arch. only), or in Theology, if they fulfil the requirements for a Matriculation Certif. or

* Certificates awarded on a lower standard of pass in Group II. are not accepted.

for a certif. of exemption as defined by the Board's Regulations for the award of School Certifs. and Matriculation Certifs., 1937, and provided also that they have satisfied any special requirements demanded by the Faculty concerned.

VI. For candidates who may not be able to satisfy any of the foregoing conditions a Special Examn. will be held; candidates must be 17 years of age on or before July 31 of the year of examn. and must satisfy the examiners in English Language and in five other subjects. In 1939 entries will be received up to April 25 and Sept. 2 respectively.

VII. An examn. for candidates of mature years (age 23 or over on May 1 of year of application) will be held. Applications will be received up to May 1.

VIII. An examn. for candidates who have been engaged in industry (age 19 or over on July 31 of year of application) will be held. Applications will be received up to April 25.

Candidates who hold Matriculation or other certificates awarded before December 1, 1937, which qualify them to enter upon a degree course under regulations in force at the date of award, will still be eligible to enter upon such a course.

N.B.—Birmingham. Applications from overseas students must be received on or before June 1.

Leeds receives applications from persons resident outside the United Kingdom up to May 31.

At *Liverpool* the Senate, after report from the faculty concerned, determines before registration whether the applications of foreign, Egyptian, or Indian students shall be accepted. Applications for registration from such students must be received before Oct. 1 in each year, and must be accompanied by detailed references certifying as to character and educational qualifications. Students, except candidates for the School of Architecture, who cannot present a Certificate issued by an approved Institution in their country of origin or by another approved Institution, stating that they are able to use English for the purpose of their work, will be required, before admission to courses of study in the Univ., to submit themselves to a test in the language. Such students must submit their applications for admission not later than Oct. 1 in each year.

Special Regulations for Entrance to Faculties

BIRMINGHAM. Candidates entering the *Arts* faculty must have passed a School Certif. examn. with credit in two languages other than English. At least one of these should be Latin or Greek for admission to the Special Honour Schools of Classics, English, History, French, Spanish, Italian, and to any group (leading to B.A. with Hons. in grouped subjects) which includes among its subjects any two from the list given above.

Law. Candidates for the LL.B. must have passed in Latin and in a modern foreign language.

Commerce. Candidates are advised to include one or two modern foreign languages.

Medicine. Candidates are strongly recommended to include Chemistry as a subject at the School or Higher School Certif. Examn., and are expected to have a knowledge of Elementary Maths. (including Trigonometry).

Science. Students who propose to take Pure Maths. Course I. in the Univ. must have passed a Higher School Certif. Examn. in Pure Maths. at subsidiary standard or submit evidence to the Board of Mathematical Studies that they are capable of profiting by the course.

LEEDS. For admission to courses for the B.A. a Latin or Greek qualification is required.

Medical and *Dental* students are ordinarily required to have passed in Maths. at a School Certif. or equivalent examn.

Admission to Advanced Standing.—Subject to a minimum attendance in this Univ. of 2 yrs., members of other Univs. requiring residence as a condition of graduation may be permitted to count their studies and examns. (other than the Final examn.) therein towards graduation in Leeds.

LIVERPOOL. Candidates for the B.A. are required to have attained the standard represented by a mark of credit in the School Certif. Examn. in Latin or Greek or, in approved instances, another classical language.

Engineering. Students are recommended to pass in Maths. (with the paper in Additional Maths.) and one or two of: Mechanics, Physics, Chem. Students in Metallurgy are recommended to include Chem. in the Higher School Certif. Examn.

MANCHESTER. Students entering for the following degree courses must have reached the credit standard in a School Certif. examn. in the subjects named or give evidence of having attained an equivalent standard. 1. Hons. Schools in *Arts* (save Archit., Econ., Philos., Geog. and Oriental Studies)—Latin (or in certain cases Greek), unless prepared to devote 4 yrs. to the course. 2. *Science*—Maths. and Mechanics. 3. *Law*—Latin. 4. *Medicine*—Latin, Maths., and Mechanics. 5. *Dentistry.*—Maths. and Mechanics. 6. *Technology*—Maths.

SHEFFIELD. *Arts.*—Candidates for the Intermediate Examn. who propose to offer a language or languages in which they have not passed in the recognized qualifying examn. for entry upon a degree course, must before admission to full Intermediate Courses satisfy the Heads of the Depts. concerned that their knowledge of the language or languages is sufficient for them to profit by the course in the subject or subjects. This regulation applies also to Music. Candidates who have passed with credit in either Latin or French in the School Certif. Examn. may be admitted to the full Intermediate Course in Spanish without any previous knowledge of that language. Candidates who offer a Modern Language (other than Russian) *or* English *or* Ancient or Modern Hist. *or* Philos. are recommended (but not required) to offer Greek or Latin also.

Law students must have qualified in Latin.

Engineering students should present Maths. and include Mechanics or Physics or Chemistry.

Metallurgy students should present Maths., Physics, and Chemistry.

BRISTOL

The University holds no Matriculation Examn. but recognizes the exempting examns. set forth below as qualifying for matricn, provided that the following requirements of the several Faculties are fulfilled :

Students intending to pursue a course for a degree in the Faculty of Arts must pass with credit in either Latin or Greek ; for B.A. in Commerce they must pass with credit in a modern foreign language and in either Maths. or a Classical language ; in the Faculties of Science, Medicine or Engineering must pass with credit in Maths. ; in the Faculty of Law must pass with credit in Latin or give evidence of such proficiency in Latin as may be satisfactory to Senate.

Exempting Examinations

Great Britain and Ireland. (*a*) Nos. 1, 2, 3, 4, 5, 6, 16, 18, 19, 21, 22 ; also 7 (*a*), 8 (*a*), 9 (*a*), 10 (*a*), 11 (*a*), 12 (*a*), 14 (*a*), provided candidates hold a First School Certificate ; and 7 (*b*), 8 (*b*), 9 (*b*), 10 (*b*), 11 (*b*), 12 (*b*), 13, 14 (*b*), 15, 17, 20, with credit in 5 subjects taken at one and the same time, which must comprise (1) either English as a full subject, *or* English Lang. together with Hist. ; (2) Maths. or Latin or Gk. ; (3) three other subjects not already taken under (1) and (2) from the following: Engl., Hist., Geog., Music or Art or Relig. Knowl., Gk., Latin, French, German, any other approved lang., Maths., Mechs., Physics, Chem., Bot., Biol., Physics with Chem., Geol., Elem. Sci. Provided that candidates who take Maths. under (2) must include a lang.; candidates who take Latin or Gk. under (2) must take Maths. or a Sci.; candidates who take Biol. may not take Bot. and candidates who take Physics with Chem. may not take Physics or Chem.

In Elementary Maths., or Latin, or French (but not in more than one of these subjects) a somewhat lower standard may be accepted for purposes of matricn., provided that the candidate has passed with credit in five other subjects in accordance with the requirements set out above. A lower alternative standard in Latin will not be accepted as fulfilling the requirements for entry into the Faculty of Arts, nor will a lower alternative standard in Maths. be accepted as fulfilling the requirements for entry into the Faculties of Science, Medicine and Engineering.

(*b*) Trained certificated teachers' qualifications under certain condns.

(*c*) Barristers-at-law and Solicitors of the Supreme Court

(*d*) Gradn. in a Univ. in the U.K. or in some other approved Univ.

(*e*) Sufficient qualification for original research in case of candidate for a research degree.

(*f*) In exceptional circumstances sufficient education and attainments in the case of candidates over 23 yrs.

Overseas Students. A candidate educated elsewhere than in the U.K. may submit to the Senate evidence of having passed examns. elsewhere equal to the Matricn. Examn. of any Univ. of the U.K., or to any of the other examns. which qualify for matricn. at Bristol ; if from an Oriental country, he must submit evidence of previous education in his own country and of ability to follow instruction given in English.

Palestine. The Palestine Matriculation Certif. is accepted for exemption provided it shows a pass in English under Syllabus A, and

that the 6 subjects in which the candidate has passed include 5 which conform to the matricn. requirements of the Univ. The Senate may thereupon, if satisfied with the evidence, declare him eligible for matricn.

CAMBRIDGE

To become an undergraduate member of the Univ. a person must first be admitted as a member either of a College or of Fitzwilliam House (Non-Collegiate). No person, except Research Students (*see* p. 70) and certain others, may be matriculated who has not passed or been exempted from the Previous Examn.

For admission, application should be made to the proper officer: the Tutor for Admissions, Christ's; the Senior Tutor, Gonville and Caius, St. John's, Cath., Down.; the Tutor, Clare, Corp., Pet., Trin. H.; one of the Tutors, Trin.; the Provost or Tutor, King's; the President, Queens'; the Master, Emm., Jesus, Magd., Pem., Sid., Sel.; the Censor, Fitzwilliam House; the Secretary, Girton; the Principal, Newnham. It is advisable to apply at least 12 mos. beforehand.

The *Previous Examination* comprises: I. (*a*) Latin, (*b*) Greek, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish; II. (*a*) Maths. (elementary), (*b*) Maths. (less elementary), (*c*) Experimental Physics and/or Chemistry; III. (*a*) English essay, précis writing, and other tests of the understanding and use of English, (*b*) Holy Scripture (a Gospel or the Acts of the Apostles), (*c*) English History.

Candidates must pass in two of the languages in Part I., including (*a*) or (*b*), in II. (*a*) and either II. (*b*) or II. (*c*), and in III. (*a*) and either III. (*b*) or III. (*c*). The three parts may be taken separately.

Natives of Asia or Africa, not being of European descent, may offer English literature in lieu of one of the languages [other than (*a*)] in Part I., and Arabic, Chinese, Sanskrit, or Pali, in lieu of I. (*a*).

Exempting Examinations

Great Britain and Ireland—Exemption, complete or partial, is obtainable under certain conditions by means of School Certificates, Matriculation Certificates, etc. (*see* below); Higher (School) Certificates; Certificates of Graduation at any Univ. in Great Britain; Certificates of the Navy, Army, and Air Force Entrance Examn. and the Dartmouth Passing Out Examn.

Matriculation Certificates, etc. Certificates of approved examns. (*see* below) give exemption from the whole Previous Examn., for passes in Latin or Greek, in a subject of Schedule A (*see* below), in English, and in a fourth subject; from all but Latin or Greek, for passes in a language other than English or Latin or Greek, in a subject of Schedule A, in English, and in a fourth subject; from Part I., for passes in Latin or Greek, and in a second language other than English; from Part II., for a pass in a subject of Schedule A; from Part III., for a pass in English.

Schedule A comprises Maths.; Elem. Maths.; Higher Maths.; Mechanics; Physics; Chem.; Physics-and-Chemistry; Gen. Sci.; Biol.; Bot.; Zool.; Nat. History; Heat, Light and Sound; Electricity and Magnetism.

The approved examns. and certificates are Nos. 1, 3, 4, 5, 6, 16, 17, 18, 19, 21, and examns. subsequent to Matricn., held by any of these Univs. Also Nos. 7, 8, 9, 10, 11, 12, 13, 14, 20, if passed *with credit*, and 15 under certain other conditions. Supplements or endorsements of certificates are taken into account, and exemption may be granted upon the joint evidence of two or more certificates.

Exemption is also given to Commissioned Officers of H.M. Forces who are resident in Cambridge under the orders of the Naval, Military, or Air Force Authorities; and may be given to foreign officers under similar conditions.

Dominions—The Matricn. Examns. of Univs. of Dalhousie, McGill, Manitoba, New Brunswick, New Zealand, Queensland, Saskatchewan, Sydney, Toronto, and the S. African Univs.; examns. normally recognized for purposes of matricn. by the Univs. of Adelaide, Alberta, British Columbia, Melbourne, Queen's (Kingston, Ont.), Tasmania, W. Ontario, and examns., subsequent to matricn., held by any of these Univs.

India—A candidate who has obtained a 1st class in the Intermediate Examn. in Arts or Science, or a 1st or 2nd class in the examn. for the B.A. or B.Sc. in an approved Indian Univ., is exempted from the Previous Examn., provided that in some examn. leading up to the B.A. or B.Sc. in that Univ. he has passed in Arabic, Persian, Persian-with-Arabic, Sanskrit or Pali, in Maths. or Science, and in English. Univs. approved for this purpose are the "Associated Institutions" (*see* below) together with the Univs. of Andhra, Benares, and Nagpur.

A candidate who has obtained a First Class in the Intermediate Examn. held by the Board of High School and Intermediate Education of the United Provinces of India, or by the Board of High School and Intermediate Education, Rajputana, Central India, and Gwalior, or in the Intermediate Examn. of the Board of Intermediate or Secondary Education, Dacca, is exempted if either in this examn. or the High School Examn. which leads up to it he has passed in a classical language, Maths., English, and History or Geography.

Hong-Kong—Hong-Kong School Certificate if it qualifies for admission to the Univ. of Hong-Kong subject to conditions attached to the recognition for the purposes of exemption from the Previous Examn. of the Cambridge and Oxford School Certificates, or the Matriculation Examn. of Hong-Kong Univ.

Europe—The holder of a certificate qualifying him for admission without further examn. into the Univ. of any European State may be exempted from Part I. if the certificate includes two languages, other than his mother tongue, of which one is Latin or Greek; from Part II., if it includes Mathematics or Science; from Part III., if it includes a modern language, which may be his mother tongue, other than that used for exemption from Part I.

U.S.A.—A student who has either (*a*) passed the examn. of the Coll. Ent. Examn. Bd. for admission to a Univ. or Coll. of the U.S.A., or (*b*) qualified for admission to a Univ. or Coll. of the U.S.A. which is an "Associated Institution"; and in the Bd.'s examn., or in examns. conducted by the Assoc. Inst., or partly in one and partly in the other, has obtained the

requisite units (or an equivalent standard), may be exempted from Part I., for 4 units in Latin or Greek, and 3 units in a second language other than English; from Part II., for 3 units in Maths. or Sci., or partly in Maths. and partly in Sci.; from Part III., for 3 units in English.

Egypt—Holders of the Egyptian Government Secondary Education Certif. who are not of European parentage are exempted from Parts II. and III., and also from Part I. provided that in one at least of the two examns. for the Certificate they have passed in French.

Palestine—A student of non-European descent who has been awarded a scholarship by the Govt. of Palestine for study at Cambridge is exempted if he is a B.A. of the American Univ. of Beirut and if the examns. leading up to his degree include English, Maths., or Science, and one of the languages, Greek, Latin, French, German, Arabic, Hebrew.

The holder of a Matriculation Certificate of the Palestine Bd. of Higher Studies who is not of European parentage is exempted from Part I., if he has passed in two languages other than English, whether taken in Group I. or Group IV.; from Part II., if he has passed in Elementary Mathematics (Group IV.), and in one of the following sciences of Group V.: General Physics; Additional Maths.; Mechanics and Hydrostatics; Heat, Light, and Sound; Elect. and Magnetism; Chem.; from Part III., if he has passed in English either in Group I. or in Group IV. In a particular case subjects passed in the Interm. or the Final Examn. for the Arts and Science Dipl. of the Bd. may be approved for exemption in lieu of corresponding subjects in the Matriculation Examn.

Admission to Advanced Standing. A graduate of an "Associated Institution" who has been a member of it for 3 yrs. is entitled to the privileges of an Affiliated Student. The "Associated Institutions" are: (1) all the Univs. of Gt. Britain and Ireland, and St. David's Coll., Lampeter; (2) in Canada—Acad., Alta., Bishop's Coll., Br. Col., Dalh., Laval, McGill, McMaster, Manit., Montr., Mt. All., New Bruns., Ottawa, Queen's, Sask., Tor., W. Ont.; (3) in Australia—all; (4) New Zealand; (5) Hong-Kong; (6) in S. Africa—all; (7) in India—Agra, Alig., Alld., Bom., Calc., Dacca, Delhi, Luck., Madras, Mysore, Osmania, Panj., Patna; (8) Rangoon; (9) in U.S.A.—Amherst Coll., Bowdoin Coll., Bryn Mawr Coll., California, Cath. U. of America, Chicago, Columbia, Cornell, Dartmouth Coll., Georgetown, Harvard, Haverford Coll., Johns Hopkins, Mass. Inst. of Tech., New York, N. Carolina, Ohio State U., Pennsylvania, Princeton, Radcliffe Coll., St. Louis, Smith Coll., Stanford, Swarthmore Coll, Vassar Coll., Wellesley Coll., Williams Coll., Wisconsin, Yale.

The following may also be admitted as *Affiliated Students*: (*a*) certain adult students recommended by the Board of Extra-mural Studies; (*b*) certain other students on a Grace proposed by the Council of the Senate. An Affiliated Student is entitled to (1) be exempt from the Previous Examn.; (2) reckon the first term kept by residence as the 2nd, 3rd, or 4th term for the purposes of certain provisions respecting the standing of candidates for (*a*) Tripos examns., or for degrees in Law or Music, and (*b*) degrees other than the Ordinary B.A. degree or degrees

of M.Sc., M.Litt., and Ph.D. ; (3) secure such a degree in certain circumstances on one part or section of a divided Tripos.

Senior Status may be granted to a member of the Univ. over 27 yrs. of age who is engaged in teaching or research, and carries M.A. privileges with regard to the Univ. Library, etc., academical dress and lodgings.

Incorporation. Admission by incorporation of graduates of Oxford and Dublin. *See* p. 66.

DURHAM

Durham Colleges

A Matriculation Examn. is held for admission to the Durham Colleges only and admits to degree courses in Arts, Theol. and Pure Science.

Exempting Examinations

Great Britain and Ireland—(*a*) Nos. 7 (*a*), 8 (*a*), 10 (*a*), 11 (*a*), 12 (*a*), 14 (*a*), subject to certain conditions.

(*b*) Nos. 7 (*b*), 8 (*b*), 9 (*b*), 10 (*b*), 11 (*b*), 12 (*b*), 13, 14 (*b*), 15 (Higher Hons. Grade), 17, 20, with credit in not less than 5 subjects other than Religious Knowledge and subjects in Group D, provided that at least one credit is obtained in each group.

(*c*) Nos. 1, 2, 3, 4, 5, 6, 16, 18, 21, provided that the foreign languages required in the Durham Matricn. Examn. are included.

(*d*) No. 22 under certain conditions.

(*e*) Success in an Entrance Scholarship Examn. under certain conditions.

(*f*) Graduation in a Univ. of the U.K. or of such other Univs. as may be recognized from time to time by the Matriculation Board.

Dominions—(i.) Irish Free State Leaving Certificate ; (ii.) Newfoundland Certificate of Jnr. Associated Grade of Council of Higher Education.

India—Intermediate Examns. of Indian Univs., provided that Latin is included.

Colonies—Students in Codrington College, Barbados, and Fourah Bay College, Sierra Leone, may matriculate (and qualify for degrees) locally.

Palestine—Matriculation Certificate of Palestine Board of Higher Studies, provided that the conditions as to the grouping of subjects for the Matricn. Examn. are observed, and 5 credits or their equivalent have been obtained.

Special Regulations for Entrance to Faculties

Arts or Theology. Candidates must as a general rule have satisfied the examiners in Latin as a principal or subsidiary subject in the examns. referred to under (*a*) above and have obtained a credit mark in Latin in the examns. referred to under (*b*) above.

For the First Year Examn. for the degree of B.A., two languages, one of which must be an ancient language, are required, and the First Year courses in Latin and French assume a knowledge of the lang. in each case up to Matricn. standard.

KING'S COLLEGE, NEWCASTLE UPON TYNE

(other than Medical School)

There is no Matriculation Examn. held by the Univ. for King's College.

Exempting Examinations

Great Britain and Ireland—Candidates for admission must hold the certificate of one of the following bodies :

(*a*) Nos. 7 (*b*), 8 (*b*), 9 (*b*), 10 (*b*), 11 (*b*), 12 (*b*), 13, 14 (*b*), 17, 20, provided candidates show either (i.) Passes in 5 subjects *with credit* at one and the same examn., or (ii.) Passes in 6 subjects at one and the same examn., four of them *with credit*, or (iii.) Passes in 6 subjects *with credit* at not more than two examns. or (iv.) Passes in 7 subjects, of which five are *with credit* at not more than two examns. Subjects approved include Religious Knowledge, English, Ancient Hist., Mod. Hist., Latin, Greek, French, German, Spanish, other langs. specially sanctioned, Elem. Maths., Addnl. Maths., Mechs., Chem.-with-Physics, Chem., Physics, Bot., Zool., Biol., Geog., Econ., Genl. Science, Music, Art, Geometrical and Engineering Drawing, Geology, Heat and its Applications.

(*b*) Nos. 1, 2, 3, 6, 15. Candidates must show either (i.) Passes in 5 subjects at one and the same examn., or (ii.) Passes in 6 subjects at not more than two examns.

(*c*) Nos. 7 (*a*), 8 (*a*), 9 (*a*), 10 (*a*), 11 (*a*), 12 (*a*). These examns. are recognized only for one or two additional subjects passed at a subsequent examn. in accordance with (*a*) (iii.) and (iv.) and (*b*) (ii.) above.

(*d*) No. 22. Same conditions as under (*b*) above.

Foreign and Colonial—Foreign or Colonial students must produce evidence that they have passed in their own country an examn. of the requisite standard, and in approximately the same subjects as would have been required had they taken one of the recognized examns. ; and further, in the case of foreign students, that they have sufficient proficiency in English to enable them to follow a course of study with profit.

India—For Indian students no qualification lower than that of the Intermediate Examn. of an Indian Univ. will be considered, except that holders of the Diploma of the Thomason Engineering College, Roorkee, will be considered on their merits. Candidates proposing to proceed to a degree in Applied Sc. (Civil, Mech., Marine or Elect. Eng., Naval Arch., Mining or Metall.), who present the Interm. Certif. of an Indian Univ. must have completed that examn. in Maths., Physics, and Chem. All applications from Indian students other than those from Hyderabad, Deccan, must be made through the High Commissioner for India, Education Dept., India House, Aldwych, London, W.C.2.

Special Exemptions

(i) Candidates educated chiefly in Scotland holding such qualification as would admit them to a faculty in a Scottish Univ. will be admitted to the corresponding faculty in the College.

(ii) Candidates who have attained the age of 19 and produce evidence satisfactory to the College that they have been engaged in technical or professional pursuits or in business in the United Kingdom for a period of approximately two years since reaching the age of 16, may be permitted to matriculate on passing the Special Entrance Examn., instead of one of those mentioned above. Details from the Registrar.

(iii) Candidates of 23 or more years of age whose native language is English may be permitted to matriculate if they produce satisfactory evidence of educational attainments, but may be required to pass the Special Entrance Examn.

(iv) In special circumstances not provided for above, candidates may apply for exemption from ordinary requirements. Such candidates may be required to pass part or all of the Special Entrance Examn.

Special Regulations for Entrance to Faculties

Arts (except Architecture) or *Law*. Candidates must pass with credit in Latin under (*a*) above or have passed in Latin under (*b*), (*c*), or (*d*) above.

Architecture. Candidates for a degree in Architecture must have passed with credit in Maths. under (*a*) above, or have passed in Maths. under (*b*) or (*d*) above.

Pure Science, if Maths. or Physics is intended to be taken in degree course, and *Applied Science* in Engin., Elect. Engin., or Naval Architecture. Candidates must have passed with credit in Maths. under (*a*) above, or have passed in Maths. under (*b*) or (*d*) above.

Pure Science, if Maths. or Physics is not intended to be taken in degree course, and *Applied Science* in Mining, Metallurgy, or Agriculture. Candidates must have passed in Maths.

THE MEDICAL SCHOOL

The Univ. holds no matricn. examn. for the Medical School, but recognizes School Certif. and other matricn. examns. if certain subjects are passed in the prescribed manner, and at not more than any two periods of examination. The subjects include English, Maths., an ancient language, a modern language, and a fifth subject to be chosen from a list of 15. Credits must be obtained in English, Maths., and in two out of the other three subjects. Further particulars from the Dean of Medicine.

Exempting Examinations

Great Britain and Ireland—Matricn. in the Fac. of Med. of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State, provided that the subjects include those required in the Fac. of Med. of this Univ. ; or a degree in Arts or Science of any Univ. in Gt. Britain and Northern Ireland or the Irish Free State.

Dominions and Colonies—Matricn. in the Fac. of Med. of any Univ. in the British Crown Colonies or Dominions, subject to certain conditions ; or a degree in Arts or Science of any Univ. in the Dominions or British Crown Colonies.

India and Malaya—Students from India and the Malay States may

be accepted for matricn. if they have passed certain approved examns. in those countries; copies of the regulations for such students are obtainable from the Dean of the Medical School.

Foreign Students—Matriculation in the Fac. of Med. of an approved Univ., subject to certain conditions; or a degree in Arts or Science of an approved Univ.

LONDON

The University conducts three examns. qualifying for matriculation:
(1) The Matriculation Examn.
(2) The General School Examn.
(3) The Special University Entrance Examn.

(1) Three times a year in London, and twice a year in certain Provincial centres, the University holds a Matriculation Examn. open to all persons of 16 years of age and upwards. To pass, a candidate must at one and the same examn. satisfy the examiners in English, Elementary Maths., and 3 of the following: (*a*) Latin, (*b*) Greek, (*c*) Botany, (*d*) Chem., (*e*) Heat, Light, and Sound, (*f*) Mech., (*g*) Elect. and Magnetism, (*h*) Physics (for examns. held in or after June 1939 only), (*j*) General Biol., (*k*) Zool., (*l*) Geol., (*m*) French, (*n*) German, (*o*) Spanish, (*p*) Italian, (*q*) Russian, (*r*) Welsh, (*s*) New Testament Greek, (*t*) any other approved language, (*u*) History—Roman, or Greek, or English, or European, or of the British Empire, (*v*) Geog., (*w*) Logic, (*x*) Drawing—geometrical and mechanical, (*y*) Maths.—more advanced, (*z*) Music—theory, (*aa*) Econ., (*bb*) Religious Knowledge. One of the 14 subjects (*a*) to (*o*) must be included, except in the case of certain Asiatic or African students or Jewish students (resident in Palestine), who may be permitted to offer one of the following in this section: Arabic, Chinese, Classical Hebrew, Pali, Persian, Sanskrit, Classical Syriac; and one of the subjects offered must be a lang. other than English. Candidates may present two special Oriental langs. under certain conditions. At the Intermediate Examn. in Arts it is compulsory to offer (*a*) or (*b*), whether taken at the Matricn. examn. or not. Law students are advised to offer (*a*) and English History.

This examn. may also be held in any of the British Dominions or Colonies, and certain Protectorates and Mandated Territories and at centres outside the Empire upon the application of His Majesty's Representative in the countries concerned.

(2) The Examinations for School Certificates are held only in Schools inspected by the Univ. or under other approved inspection; the course of study in the school must also be approved. The examns. are of 2 grades: I. Higher, II. General; for I. the Higher School Certif. and for II. the General School Certif. respectively. These Certifs. are not awarded until the pupil leaves school. The examn. fees are £3, Higher; £2 : 5s., General. At the General candidates may qualify for exemption from Matricn., and at the Higher for exemption from Interm. Examns. (Arts, Sci., Comm., Econ., Engin., First Medical), extra fees being payable. The combination of subjects that may be taken at the General School examn. offers greater variety than is the case in the Matricn. examn., and a pupil who reaches the necessary standard at one

and the same examn. in a combination required for Matricn. is entitled on payment of the registration fee of £2 : 2s. to be registered as a Matriculated student of the Univ., if or when he has attained the prescribed age. A candidate who obtains a General School Certif. but fails to reach Matricn. standard at that Examn. may still qualify for Matricn if he afterwards obtains a Higher School Certif.

(3) The Special University Entrance Examination is open to :— I. Persons aged 19 yrs. or over holding (*a*) Certifs. of Matricn. in Colonial and Dominion Univs., or (*b*) Indian or Foreign Certifs. from an academic or other educational authority which in the opinion of the Principal indicate a standard equivalent in their own country to that required for matricn. in this Univ. II. Persons over 23 yrs. of age. The Examn. is usually held in March, May, Sept. and Dec., and consists of 4 or 5 subjects, of which English and either Maths. or Logic are compulsory. English-speaking candidates are required to offer a lang. other than English. No candidate is admissible unless it is his *bona fide* intention to proceed to a degree or diploma in the Univ. All candidates must attend in London for both the written part (which lasts 2 days) and the oral part of the examn. No syllabus is published. The fee is 5 gs.

Full information regarding all these examns. may be obtained from the Secretary, Matriculation and School Examinations Council, University of London.

Exempting Qualifications

Exemption may be obtained by (1) graduates of any of the Univs. of the U.K. and the following overseas Univs. : In Canada—Acadia, Alta., Bishop's Coll., Br. Columbia, Dal., King's, Laval, McGill, McMaster (B.A. only), Manit., Montr., New Bruns., Nova Scotia Tech. Coll., Queen's, Saskatchewan, Tor., Vict. (Tor.), W. Ontario ; Australasia—Adel., Melb., Qld., Syd., Tas., W.A. (Arts, Sc., Agr., Eng.), N.Z. ; S. Africa—Cape, Cape Town, S. Afr., Stell., Witw. ; India—Agra, Aligarh, All , Andhra, Annamalai, Benares, Bom., Calc., Dacca, Delhi, Lucknow, Mad., Mys., Nagpur, Osmania, Panj., Patna ; Rang. ; Hong-Kong ; Malta ; certain Univs. in countries outside the British Empire ; (2) subject to certain conditions, persons who have passed the examns. numbered 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 ; (3) persons who hold the Adelaide Leaving Certif., Melbourne School Leaving Certif., Queensland Senr. Public Examn., Tasmanian Public Leaving Examn., W. Australia School Leaving Certif., Matric. Examn. Certif. of the Joint Matric. Board of S. Africa, Secondary School Senior Certif. of the Dept. of Public Education, Cape of Good Hope, Transvaal Secondary School Certif., Ontario Upper School Certif., provided that the student has reached a specified standard at one and the same examn. in English, Maths., and 3 other prescribed subjects, of which one must be Latin or Greek or French or German or Spanish (Cape of Good Hope and Tasmania—not Greek) or a Science.

The regns. relating to exemption from the Matricn. Examn. have been amended so that any School Certif. together with any Higher School Certif., obtained in or after 1937, of the following approved Examining Bodies will be accepted for the purpose of exemption from Matricn. : Bristol Univ., Cambridge Local Examns. Syndicate, Central

Welsh Bd., Durham Univ., Joint Matriculation Board, Oxford Local Examns. Delegacy, Oxford & Cambridge Schools Examn. Bd.

The introduction of these regns. does not exclude the existing regn. which permits a candidate to qualify for Matricn. at the School Certif. Examn. providing he obtains the necessary credits required under the regns.

OXFORD

Admission to the Univ. (" Matriculation ") is without respect of sex, age, nationality, or creed, and follows upon admission to a Society, *i.e.* a College or Hall or Society. No one can become a member of the Univ. unless he first becomes a member of one of these Societies. An application for admission must therefore be addressed, not to any officer of the Univ., but to the proper officer of the Society to which admission is desired, *e.g.* Balliol—The Tutor for Admissions; St. Catherine's Society—The Rev. the Censor; in other cases—The head of the Society. (*See* Colleges, etc. under Oxford Univ.) It should be made, if possible, a year or more before residence is contemplated, especially if rooms within the College are desired. Except for certain classes of persons the passing of an entrance examn. is a condition of admission to matricn.

The Colleges and Halls and Societies require certain qualifications of character and intellectual attainment in which the passing of *Responsions* or some equivalent examn. is necessarily included.

Responsions comprises: I. (*a*) Latin, (*b*) Greek; II. (*a*) Holy Scripture, (*b*) English, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish; III. (*a*) Maths., (*b*) Natural Science. To pass, a candidate must have satisfied the examiners *either* in both subjects from Group I. and in both subjects from Group III., *or* in at least one from each group and in 4 subjects in all; he must also have passed in 2 languages other than English, and either have passed in all 4 subjects at one examn. (in which case special merit in one or more subjects may compensate for comparative weakness in any one) or in 3 at one examn. and in a fourth at a subsequent examn.

Exempting Examinations

Great Britain and Ireland, etc.—Exemption may be obtained:

A. By persons accepted for admission as Service Students or Imperial Forest Service Students or Special Students or Senior Students, or as candidates for the degree of B.C.L. under certain conditions, or as Advanced Students, or as candidates for the Degree of B.Litt. or of B.Sc., or who hold a degree at another Univ., such degree and such Univ. having been approved by the Hebdomadal Council, or as Students of Mature Years recommended by the Delegates for Extra-mural Studies under certain conditions. Exemption may also be claimed by anyone who has pursued a course of study extending over 2 yrs. at a Univ. approved for Senior Status, provided that the applicant has passed all examns. incidental to his course at that Univ. and has submitted a certif. of satisfactory progress signed by a competent authority of that Univ.; and provided further that the required course of study at an Asiatic Univ. has included the study of English and has been pursued

subsequently to the Intermed. Examn. or to the corresponding stage at a Univ. which does not hold an Intermed. Examn.

B. Subject, *inter alia*, to passing in 2 of the languages, Latin, Greek, French, German, Italian, Spanish, of which either Latin or Greek shall be one, persons who have passed a School or Higher School Certificate Examn. (7, 8, 9, 10, 11, 12, 13, or 14 (*b*)) or gained a class in the Final Senior Freshman Examn. of Dublin or a Scottish Preliminary Examn. Certificate, or passed any of the examns. numbered 2, 3, 4, 5, 6, 15, 17, or the Intermediate Arts or higher examn. of Birmingham, Durham, Leeds, Liverpool, London, Manchester, Sheffield, or Bristol.

Dominions and Colonies—Exemption may be granted to any person who has obtained (1) a certificate of having passed either (*a*) the matriculation examn. of the Joint Board of the South African Universities, or (*b*) the Secondary School Certificate Examn. of the Education Dept. of the Transvaal or (Senior Certif.) of the Cape Province, provided that it shows that he has passed in two of the languages, Latin, Greek, French, German, Italian, Spanish, of which Latin or Greek must be one; or

(2) A certificate or certificates of having passed one of the following, provided he has satisfied the examiners in two of the said languages, of which Latin or Greek must be one:

Univ. of McGill Matricn., or First Year in B.A. course; Ontario Educn. Department's Middle School Examn.; Univ. of Toronto Senior Matricn., or First Year; Council of Higher Education, Memorial Univ. Coll., Newfoundland, First Year Examn.; Brit. Columbia Sen. Matricn., Brit. Columbia Jun. Matricn. (60 per cent in each of the two cases);

Univ. of Adelaide Public (Leaving); Univ. of Melbourne School Leaving (Class B); Univ. of Tasmania Public Leaving; Univ. of W. Australia School Leaving; New South Wales Educn. Department's Leaving Certif.; Univ. of Sydney Matricn. (the two necessary languages at the Higher Standard); Univ. of Queensland Sen. Publ. Examn.;

New Zealand Matricn. or Entrance Scholarship;

Univ. of Malta Matriculation;

Univ. of Hong-Kong Matriculation Examn.

India—See A above.

Palestine—Exemption will be granted to any Palestinian student provided that he holds the Matricn. Certif. of the Palestine Board of Higher Studies, showing that he passed with credit in English (Syllabus A), either Arabic or Hebrew (Syllabus A), and in one of the languages, Latin, Greek, French, German (Syllabus B).

Foreign Students—Exemption may be granted to any person who has obtained a certificate or certificates qualifying him for admission to a univ. in Austria, Belgium, Czecho-Slovakia, Denmark, Finland, France, Germany, Holland, Hungary, Italy, Norway, Poland, Sweden, Switzerland, or Yugoslavia, or a Certificate of Part I. of the Baccalauréat de l'Enseignement Secondaire in France, provided it shows that he has satisfied the examiners in either Latin or Greek.

Natives of Asia, Egypt, or the Sudan, born of non-European parents,

can apply for permission to offer a substitute for Latin or Greek in Responsions.

Admission to Privileged Standing: "Senior Status."

The following may be admitted to the status and privileges of a Senior Student:

(1) Any person who has obtained a Degree at another Univ., such Degree and such Univ. having been approved by the Hebdomadal Council,* provided that he shall have pursued a course of study extending over 3 yrs. at the least at a Univ. or Univs. so approved, or, should the Hebdomadal Council in his case approve, partly at a Univ. so approved and partly at another or other Univs.

(2) Any person who, having been a student at a Univ. in a European country, where there is no Degree in any way equivalent to that of Bachelor of Arts but where there are State or Univ. examns. at approximately the same stage as the examns. for the Degree of Bachelor of Arts, has passed such State or Univ. examn., such examn. and such Univ. having been approved by the Hebdomadal Council, provided that he shall have pursued a course of study extending over 3 yrs. at the least at a Univ. or Univs. so approved.

(3) Any person who has obtained a Degree at another Univ. and has also been selected to come to Oxford by some Body approved, for the purposes of this Sectio by the Hebdomadal Council.

(4) Any person who, though not eligible under sub-clause (1) or (2) or (3), has satisfied the Hebdomadal Council that he is particularly well qualified to be admitted as a Senior Student.

(5) Any medical student of a Univ. in the British Dominions or Colonies or in Gt. Britain and Northern Ireland may be admitted to the status and privileges of a Senior Student; provided that the Univ. shall have been approved by the Hebdomadal Council and that he shall have pursued at that Univ., or, should the Hebdomadal Council in his case so approve, at more than one Univ., for at least 3 yrs. a course of study leading to a degree in Medicine and shall have passed all examns. incidental to that portion of the course.

A Senior Student: (*a*) may reckon his 1st term as his 4th; (*b*) is not required to pass Responsions or any part of the 1st Public Examn.; (*c*) is entitled to supplicate for the Degree of B.A. after having kept statutable residence for 6 terms, and having (i.) obtained a place in the Class List of an Honour School of the 2nd Public Examn., or been allowed "aegrotat," or, if disqualified by standing from obtaining Honours, shown such merit as would otherwise have entitled him to a place in the Class List; or (ii.) satisfied the Examiners in the 2nd Public Examn. in the Final Honour School of Nat. Sci. in Chem., Pt. I; or (iii.) passed the Preliminary Examn. in Agriculture, Forestry and Geography and the Final Examn. in the School of Forestry.

No Senior Student will be entitled to supplicate for the Degree of B.A. except as above.

* The Hebdomadal Council will not approve any Degree of an Indian Univ. under this clause unless the course of study leading to it has extended to 3 yrs. subsequently to the Intermed. Examn. In most cases a First Class is required either in B.A. Honours or B.Sc. Honours or M.A. or M.Sc.

Incorporation. Admission of members of the Univs. of Cambridge and Dublin to incorporation. *See* p. 273.

READING

The University holds no Matriculation Examination.

Exempting Examinations

Matriculation, minimum age 17, is open to :

(*a*) Graduates of Univs. in the United Kingdom or other approved Univs. ;

(*b*) Persons who have passed or obtained exemption from Nos. 3 or 6, or have satisfied the conditions for such exemption ;

(*c*) Ordinarily persons who hold 7 (*b*), 8 (*b*), 9 (*b*), 10 (*b*), 11 (*b*), 12 (*b*), 13, 14 (*b*) and who have at one and the same examn. obtained passes with credit in five subjects including (i) English, (ii) *either* Maths. *or* Latin, (iii) three other subjects. Persons offering Maths. under (ii) must include an ancient or modern foreign language under (iii) ;

(*d*) Persons who, being at least 23 years of age, have passed a special examn. held by the Univ. " for approved candidates of mature years." In exceptional circumstances the Senate may accept other evidence of previous education and attainments.

WALES

The Matriculation Examn., the passing of which is a condition of matriculation for students of the constituent Colleges who have not passed an equivalent examn., is held at each of these Colleges and at certain approved Adult Schools about the end of Jan. and the end of June each year. The subjects are (*a*) English, (*b*) Welsh Lang. and Lit., (*c*) Latin, (*d*) Greek, (*e*) New Testament Greek, (*f*) Welsh, (*g*) French, German or other approved language, (*h*) History, (*i*) Scripture, (*j*) Music, (*k*) Art, (*l*) Geography, (*m*) Economics, (*n*) Maths., (*o*) Mechanics, (*p*) Physics, (*q*) Chemistry, (*r*) Botany, (*s*) Biology, (*t*) Geology, (*u*) Practical Plane and Solid Geometry, (*v*) General Science. A candidate must pass at one and the same examn. in 5 subjects, including (*a*) or (*b*), one of (*c*), (*d*), (*e*), (*n*) ; and at least in one language in addition to English or Welsh Lang. and Lit., and either (*n*) or (*l*), or one of (*o*) to (*v*). No candidate may offer more than one of (*i*), (*j*), (*k*) or both (*b*) and (*f*), or both (*d*) and (*e*), or both (*e*) and (*i*), or both (*r*) and (*s*), or both (*l*) and (*t*). A candidate who wishes to offer Economics must offer (*n*), or one of the subjects (*o*) to (*v*). A candidate who wishes to offer General Science may not offer one of the subjects (*o*) to (*u*).

Exempting Examinations

Great Britain and Ireland—(*a*) Nos. 3, 6, 16, 19, 21.

(*b*), 7 (*b*), 8 (*b*), 9 (*b*), 10 (*b*), 11 (*b*), 12 (*b*), 13, 14 (*b*), 15 (Higher Grade), 17, 20, 22, with credit at one and the same examn. in each of the subjects required by the Welsh Matricn. Regulations.

Note. The certificates of candidates desiring exemption must in general comply with the conditions of exemption in force at the time of the award of the certificate.

Dominions and Foreign—Candidates who have qualified by examn.

for a degree of an approved Univ. or College, or have passed the Matricn. examn. of the South African Univs. or of the Swiss Univs., or of the Palestine Board of Higher Studies (Syllabus A), or of the Univ. of Hong-Kong, or the secondary school certif. examn. of the Transvaal or Cape Province Education Dept., or the Egyptian Secondary Education Certificate Examn. Part II., in the subjects required by the Univ. matricn. regulations, or, if certified by a constituent Coll. as possessing sufficient knowledge of English to profit by a degree scheme of study, the Intermediate Examn. in Arts or Sci. of an approved Indian Univ., or, if certified by the Iraqui Ministry of Education as fitted for a course of study, the Iraqui Baccalauréat examn., may matriculate without further examn.

Special Exemptions

Candidates of 23 *or more years of age* after a written and *viva voce* examn. conducted by a constituent College may be exempted on the recommendation of the constituent College.

Candidates of not less than 20 years of age who have been full-time pupils of an approved adult school during not less than 2 yrs. may pass the matricn. examn. in 4 subjects provided they satisfy the authorities of the adult school in a fifth subject.

Candidates for Diplomas of the constituent Colleges who are not less than 20 yrs. of age and who have been for at least 1 yr. full-time students at a constituent Coll. may pass the matricn. examn. in 4 subjects provided that they satisfy the Coll. in a fifth subject.

Special Regulations for entrance to the Faculty of Medicine

No candidate for the degrees of M.B., B.Ch. will be accepted, unless he has passed, prior to admission, the matriculation examn. or an examn. recognized by the Univ. of Wales as equivalent thereto and has passed the matriculation or equivalent examn. in two of the following subjects, *of which one shall be either Physics or Chemistry*, viz.—Physics, Chem., Bot., Zool. and Biol. This regulation will not apply to persons holding a degree of a British Univ.

No candidate is accepted for admission to the Depts. of the *Second Year* of the medical course until he has pursued and completed by examn. at one and the same time, the four first year courses. This regulation may, however, be relaxed at the discretion of the Joint Academic Committee of University College, Cardiff, in certain cases where only *one* of the four first year courses named above is outstanding.

SCOTTISH UNIVERSITIES

Qualifications for admission to degree courses in Scottish Universities

I. Scottish Education Dept.'s Group Leaving Certificate showing passes (including at least two on the Higher Standard) in at least 4 of the following subjects: (i) English (including Literature and History); (ii) Maths., Dynamics, Physical Sci.; (iii) Latin, Greek, French, German, Italian, Spanish, Gaelic; (iv) Nat. Sci., Art, Music, Applied Sci., provided (*a*) the passes must include one from each of the groups (ii) and (iii); (*b*) unless they include three on the higher standard the

Certificate must show either (1) passes in Latin (or Greek) and in Maths., or (2) a pass on the Higher Standard in Latin (or Greek) or in Maths., and all the four passes must be in subjects taken from groups (i), (ii), and (iii) ; but the Board will accept a pass in Higher Nat. Sci. as one of the four passes.

II. Other certificates affording evidence of a satisfactory secondary education on lines above specified.

III. Preliminary Examination under the Entrance Board in 4 subjects selected from the following, including at least one from each of the first 3 groups : (i) as under Clause I. ; (ii) Maths., Physical Sci., Dynamics ; (iii) as under Clause I., or other approved language ; (iv) Nat. Sci. (any 2 of Chem., Bot., Zool., Geog.). Proviso (*b*) applies (except as regards the limitation to passes from subjects in Groups (i), (ii) and (iii)), and candidates are ordinarily required to reach the pass standard in English. The only subjects in this examination in which lower standard passes can be obtained are Latin, Greek and Maths. Candidates submitting both Physical and Nat. Sci. may select questions in the Chemical Section of one only of these branches. Examns. held March and Sept.

The holder of a degree obtained otherwise than *honoris causa tantum* in any British or foreign Univ. is exempt from all Prelim. examination.

Exempting Examinations

Great Britain and Ireland—A. Nos. 1, 2, 3, and any School or Local Examn. conducted under the auspices of the Univs. of Oxford or Cambridge which are accepted as exempting from (1) and (2) respectively.

B. Such qualifications as would admit a candidate to the Faculty of Arts or the Faculty of Science in a Univ. in England, Wales, or Ireland, provided he has been educated chiefly in one of those countries.

Dominions and Colonies—Candidates from the British Dominions or Colonies may be exempted from the Preliminary Examn. if they have passed examns. which would admit them to a course qualifying for graduation in Arts or Science in Univs. or Technical Colleges affiliated to a Univ. in the Dominion or Colony from which they come, provided their knowledge of English is sufficient to enable them to follow the courses of instruction with profit. Those whose native language is other than English are required to pass an examn., oral and written, in English, including set books.

India—Students from India are admitted subject to the condition that they have obtained a first class in an Intermediate Examn. in Arts or Science in a recognized Indian Univ., and have at some stage of their course passed in English and Maths. or Science.

Hong-Kong—The Matriculation Certif. of the Univ. of Hong-Kong will be accepted.

Burma—Students from Burma must have passed the Intermediate Examn. of the Univ. of Rangoon and have passed at some stage of their course in English and Maths. or Science.

Palestine—The Matriculation Certificate of the Dept. of Education of the Government of Palestine will be accepted, provided the candidate has passed with credit in English according to Syllabus A, and has

obtained a pass with distinction in one subject at least and passes with credit in three other subjects, one of which may be English.

The Intermediate Examn. for the Arts and Sci. Diploma of the Palestine Board of Higher Studies will be accepted.

Foreign—Certifs. entitling the holder to enter upon a regular course of study leading to a degree in Arts, Pure Sci., or Med. in any of the Univs. or Colls. approved by the Assocn. of American Univs. (*see* Appendix VIII.) are recognized for exemption from the Prelim. examn.

The B. ès L. and B. ès Sc. and similar " certifs. of Maturity or Grades, entitling the holder to enter upon a regular course of study in the Univs. of his own country," are accepted subject to the above-mentioned conditions as to knowledge of the English language. Argentine Certificates giving admission to the Univ. of Buenos Ayres, the B.A. degree of St. John's, Shanghai, the first-class certificates of the Anglo-Chinese College, Amoy, and, if including Arabic, English, and Maths., the Egyptian Secondary Education Certificate, have been recognized as exempting from the Prelim. examination.

Applicants of Chinese birth who have passed the Entrance Examn. entitling them to enter upon a course leading to a degree in Arts or Pure Science or Medicine in one of the recognized Chinese Univs. will be granted the Board's Certif., provided they pass the Special Examn. in English for foreign students.

N.B.—In each Univ the Senatus may for any particular class, attendance on which for a specified period is necessary in order to qualify for graduation, determine the conditions of admission to such qualifying attendance.

Application to the Secretary of the Scottish Universities Entrance Board, 83 North Street, St. Andrews, should be made by all overseas students seeking admission to Scottish Univs.

Special Exemptions

The Board has a general dispensing power in regard to applicants of not less than 21 yrs. of age who satisfy it as to their fitness.

Full information as to the regulations for examinations and for exemptions can be obtained from the Secretary, Scottish Universities Entrance Board, 83 North Street, St. Andrews.

Exemption from Courses in Medicine and Surgery

Subject to certain conditions 3 yrs. or 9 terms of medical study may be spent in attendance on courses of instruction in the subjects of the curriculum at any Univ. of the U.K., or at such Dominion, Indian, Colonial or foreign Univ., or at such medical schools, or under such teachers as may be recognized for the purpose.

Special Regulations for Entrance to Classes

Aberdeen. In the case of Greek, Hebrew, Arabic, Syriac, and Mathematics, a student shall be admitted to attendance on the classes qualifying for graduation if he has the subject of the class as one of the subjects either of his Group Leaving Certificate or of the University Preliminary Examination. Where a student desires to attend a course

qualifying for graduation and does not satisfy the above condition, he shall inform the Secretary to the University of Aberdeen not later than one week before the commencement of the class, and a written examination or other test will be provided to determine his fitness to attend the class.

Edinburgh. Certain preliminary passes are required for entrance to certain classes. If a student intends to take a curriculum containing a class which requires a special qualification, it is desirable that he should have included this qualification in his Leaving Certif. (or its equivalent), but failing this he may take the subject in the Univ. Preliminary Examn.

Preliminary Qualifications Necessary for Attendance at Certain Classes

Arts and Commerce. Ordinary classes in Latin, Greek, French, German, Italian, Spanish, Celtic.—A pass in the lang. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Second Ordinary, Intermediate Honours, and Honours Classes in English, and Interm. and Hons. Classes in French, Italian, Spanish.—A pass in Latin on at least the lower standard in the Leaving Certif. (on the higher for Hons. English), or some equivalent evidence of proficiency.

Sanskrit.—A knowledge of the Devanagari characters and the mode of transcription described in Perry's *Sanskrit Primer*.

Hebrew.—A knowledge of Hebrew grammar (as in Davidson's *Introductory Hebrew Grammar*), and ability to read simple prose, such as the Book of Ruth, or the narratives of Genesis.

Arabic.—A knowledge of Arabic grammar, and ability to read a simple Arabic text.

Music.—A pass in Music in the Leaving Certif., or some equivalent evidence of proficiency.

Maths., Natural Philos. (Physics).—A pass in Maths. on the higher standard in the Leaving Certif., or some equivalent evidence of proficiency.

Chemistry.—A pass in an Admission Examn., unless the student has a pass in Physical Sci. (incl. Chem.) in the Leaving Certif., or other evidence of proficiency accepted as equivalent.

The Ordinary Classes in Ancient (Gk. and Roman) Hist., Gen. European Hist., Ecclesiastical Hist., and Roman Law, and Hons. Classes in British Hist., Constitutional Law and Const. Hist., and Scottish Hist.—A pass in Latin on at least the lower standard of the Leaving Certif., or some equivalent evidence of proficiency.

Accounting and Business Method.—A pass in an Admission Examn. in Book-keeping (L. C. Cropper, *Book-keeping and Accounts*, pp. 1-132), or evidence of a sufficient practical training in an office or otherwise.

Science. Maths., Technical Maths., Physics (Nat. Philos.), Chem.—As for Arts.

Engineering.—A pass in Higher Maths. in the Leaving Certif. (or its equivalent).

As Maths. or Physics is a class included in every type of curriculum for the Ordinary degree in the Dept. of Pure Sci., Higher Maths. should

be included in the Leaving Certif. (or its equivalent). Every student who wishes to attend the courses in Technical Maths. must also sit an Entrance Examn. on the first Monday of the Autumn Term.

Similarly, Tech. Maths. or Physics is included in the curriculum for a degree in the Depts. of Engin., Mining, Tech. Chem., Agric., and Forestry.

Law. Civil Law.—A pass in Lower Latin in the Leaving Certif. or some evidence of a sufficient knowledge of the language.

Medicine. A student before commencing the study of Med. must have passed (1) an examn. in Gen. Knowledge recognized by the Entrance Board,* and (2) the Pre-Registration Examn. in Physics and Chem. of the Univ. or a recognized equivalent examn.†

Students taking Examn. (1) in a form which includes Chem. and Physics as an essential part of the examn. must take a separate Pre-Registration Examn. in these two subjects subsequently.

Recognition of Institutions and Teachers Outside the United Kingdom

(*a*) Students may apply for exemption from one (not the final) year of the course for M.A. or for B.Com. and from attendance on classes in and examn. in two subjects for the Ordinary Degree. Applications will be considered separately on their merits.

(*b*) For some of the courses for the B.Sc.: Madras Coll. of Agric., Colls. affiliated up to B.A. and B.Sc., and Engin. Colls. affiliated to the Indian Univs., Univs. and Polytech. Sch. supported and regulated or recognized by Govts. in Europe.

(*c*) For admission as graduate in Arts to the LL.B. examn.: the Univs. of All., Calc., Mad., v. also (*f*).

(*d*) For 2 of the 3 yrs.' study for LL.B.; McGill Univ., Madras Law Coll., Law Coll., Trivandrum, Ripon Coll., Calc., Rangoon Univ.

(*e*) For 3 of the 5 yrs. of Med. study: recognized teachers in Singapore (in Physiol. and Practice of Med.) and Wellington, S. Africa (in Chem.).

(*f*) Graduates of other institutions are admitted to study for the Ph.D. degree; each application is considered separately.

Glasgow. I. For the following classes, namely: Latin (Ordinary), Greek (Ord.), French (Ord.), German (Ord.), Italian (Ord.), Spanish (Ord.), Russian (Ord.), Hebrew (Senior), Arabic (Ord.), Celtic (Ord.), attendance shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in the subject of the class on the Higher Standard (where different grades exist); but any student not so qualified, if for special reasons he shall have been admitted to any of these classes by the Head of the Dept. and shall have passed in the subject of the class on the Higher Standard in March of the same academic year, may make application to the

* Any student holding a certif. admitting him to an English, Irish, or Welsh Univ. will be exempted by the Entrance Bd. from Examn. (1).

† Applications for exemption should be addressed to the Dean of the Faculty of Medicine.

Senate for the recognition of such pass, and on such recognition being granted his attendance and class record may be allowed to qualify for graduation.

II. (*a*) For all Higher Ordinary classes in Arts—attendance on a Higher Ordinary class shall not qualify for graduation on the Higher Ordinary Standard unless before admission to the class the student has obtained a pass on the Ordinary Standard in the subject in which he is taking a Double course.

(*b*) For all second year classes of Double course subjects in Science: attendance on a second year class of a Double course subject shall not qualify for graduation on the Double course Standard unless before admission to the class the student has obtained a pass on the Single course Standard in the subject in which he is taking a Double course.

III. For the following classes, namely: English (Higher Ordinary or Hons.), French (Higher Ord. or Hons.), German (Higher Ord. or Hons.), Italian (Higher Ord. or Hons.), Spanish (Higher Ord. or Hons.), Hebrew (Higher Ord.), Celtic (Hons.), Hist. (Higher), Hist. (Hons.), Scottish Hist. and Lit. (Hons.), Constitutional Law and Hist. (Higher Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or the Lower Standard.

IV. (*a*) For the following classes in Arts and Pure Science, namely: Maths. (Ord.), Nat. Philos. (Ord.), Astronomy (Ord.), attendance shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Maths. on the Higher Standard; but any student not so qualified, if for special reasons he shall have been admitted to any of these classes by the Head of the Dept. and shall have passed in Maths. on the Higher Standard in March of the same academic year, may make application to the Senate for the recognition of such pass, and on such recognition being granted his attendance and class record may be allowed to qualify for graduation.

(*b*) For the following classes in Applied Science and Engin., namely: Maths. (First Course for Engineers), Applied Physics (Ord.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Maths. on the Higher Standard, or that he has diligently attended a non-qualifying course in that subject; but the Head of the Dept. shall have power to accept such evidence of proficiency in Maths. as he may deem equivalent.

V. For the following classes, namely: Logic (Hons.), Moral Philosophy (Hons.), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Latin or Greek on the Higher or Lower Standard, or in Maths. on the Higher Standard.

VI. For the following class, namely: Civil (or Roman) Law, attendance shall not normally qualify for graduation unless before admission to the class the student has graduated in Arts, or has produced evidence

that for the Entrance Certif. or otherwise he has passed in Latin on the Higher Standard.

VII. For the following classes, namely: Hebrew (Hons.), New Testament Greek (Biblical Criticism, Junior), attendance shall not normally qualify for graduation unless before admission to the class the student has produced evidence that for the Entrance Certif. or otherwise he has passed in Greek on the Higher or Lower Standard, or that he has diligently attended a non-qualifying class in Greek.

VIII. For the following class, namely, Hebrew (Junior), attendance shall not normally qualify for graduation unless before admission to the class the student produces evidence to the Head of the Dept. that he possesses a sufficient knowledge of Elementary Hebrew Grammar.

IX. For the following class, viz., Music (ordinary), attendance shall not normally qualify for graduation unless before admission to the class the student has (*a*) passed in Music on the higher standard in the Leaving Certif. Examn., or (*b*) attended and satisfactorily performed the work of the elem. class.

In cases I. and III.-IX. either the Head of the Dept. or the Faculty concerned shall have power to accept such other evidence of fitness to profit by attendance on the class as may be deemed sufficient.

St. Andrews. In the Faculty of Arts, students who propose to attend a graduating course in Latin or Greek, or Hebrew, or French, or German, must produce evidence of having passed the Leaving Certificate Examn. in the language on the Higher Standard or some equivalent qualification, or must (in the case of Latin and Greek) have attended a Junior Class in the Univ. and duly performed the work of that class for one session. Students who wish to attend a graduating course in Maths., Applied Maths., or Nat. Philos. must show that they have passed the Leaving Certif. in Maths. on the Higher Standard or obtained some equivalent qualification.

In the Faculty of Science, the above rule applies to the classes of Maths., Applied Maths., and Nat. Philosophy.

BELFAST

The Matriculation Examn. comprises English, Mathematics, and 3 of the following: (*a*) Greek, (*b*) Latin, (*c*) French, (*d*) German, (*e*) Italian, (*f*) Spanish, (*g*) Modern History, (*h*) Physics or Mechanics, (*j*) Geog., (*k*) Chem., (*l*) Bot., (*m*) for Faculties of Arts, Commerce, Applied Science, and Technology—Celtic, (*n*) for Science, Medicine, or Applied Science or Technology—Mechanical Drawing; for Commerce—(*o*) Elementary Economics, and (*p*) Accounting; for Faculty of Arts (*q*) Music. For Arts, Science, or Medicine one language other than English must be taken; for Commerce—French or German or Spanish; for Applied Science or Technology—one of the languages (*a*)-(*f*).; for Faculty of Law—Higher standard required in English, History and Latin. Candidates for Faculty of Arts may, under certain conditions, take Latin or Greek instead of Maths.

A candidate who has passed in at least 3 subjects, but failed to pass

the examn. as a whole, is allowed to complete his matricn. at the next subsequent examn.

Exempting Examinations

Candidates who have passed any of the following examns. are admitted as matriculated students, provided that if they have not passed in all the subjects required by the Univ. for matriculation in the respective faculties they shall be required to pass in the additional subjects at one and the same Matricn. Examn.

Great Britain and Ireland—A. 1, 2, 3, 4, 5, 6, 8 (*a*),* 8 (*b*),* 9 (*a*),* 9 (*b*),* 10 (*a*),* 10 (*b*)* (provided in the case of 8 (*b*), 9 (*b*) and 10 (*b*) that at the same or any separate examns. the candidate has passed in 5 subjects recognized by the Univ. for matriculation and obtained credit in at least four), 11 (*b*), 13, 15 (subject to certain conditions), 16, 17, 19, 20.

B. Graduation examn. of a British Univ.

Dominions—The Matricn. Examn. of the Joint Matriculation Board of the Univs. of South Africa ; the Matricn. Examn. of the Univ. of New Zealand.

The Secondary School Certificate of the Transvaal Education Dept. provided that the student has passed in the subjects required by the faculty he desires to enter and that he has passed with credit in at least 3 of these subjects.

India—The Intermediate Examn. of the following Indian Univs. : Aligarh, Allahabad, Benares, Bombay, Calcutta, Dacca, Delhi, Lucknow, Madras, Mysore, Nagpur, Panjab, Patna, Rangoon.

Palestine—The Matricn. Examn. of the Palestine Board of Higher Studies, provided that the student has passed with distinction in English.

Special Exemptions

Students of mature age (not less than 23) may be admitted without passing the ordinary Matricn. Examn. Applications are dealt with by a special committee of the Academic Council, who may submit candidates to such tests of their fitness to profit by the courses of the Univ. as they may consider necessary in each case. Applications must be submitted on or before July 1 in each year.

Special Regulations for Entrance to Faculties

Arts. Candidates for the Faculty of Arts who intend to enter an Honours School must pass in Greek or Latin at Matricn.

Medicine. Candidates must have passed an examn. in Latin of at least Junior Certificate (Northern Ireland) Standard, and a pre-registration examination in Physics and Chem.

Law. A higher standard at Matricn. Examn. is required in English, History and Latin.

* Candidates who have partially fulfilled the conditions of these examns. and who wish to offer a combination of the results of these examns. as a qualification for matricn. or to combine 8 (*b*), 9 (*b*), or 10 (*b*) with the Matricn. Examn. should forward their application to the Secretary for consideration.

Candidates who have passed in Physics and Chem. as one subject in 8 (*b*) will be allowed to count this as two out of five, provided they have passed in an additional subject.

Engineering. There is a special Matricn. Examn. comprising English, Maths., Further Maths., Greek or Latin or French or German or Italian or Spanish, Physics or Chem., Mod. Hist. or Geography.

DUBLIN

Arts. The Matricn. Examn. held six times a year, comprises English Composition, Maths., English Hist. and Modern Geog., Latin, and one of: Greek, French, German, Irish, Italian, Spanish.

Science. The Matricn. Examn. comprises English Composition, Maths., French or German, and one other language.

Exempting Examinations

Great Britain and Ireland. Candidates who have passed the Examn. for Leaving Certificates held by the Dept. of Education in the Irish Free State, or the Examn. for Senior Certificates held by the Ministry of Education in Northern Ireland, or any other examn. including 6 (*a*), 6 (*b*), 7 (*a*), 7 (*b*), 8 (*a*), 8 (*b*), 9 (*a*), 9 (*b*), 10 (*a*), 10 (*b*), regarded by the Senior Lecturer as equivalent thereto, are qualified for Entrance to Trinity Coll. on passing, if required to do so by the Senior Lecturer, a further examn. in those subjects, if any, of the Trinity Coll. Entrance Examn. which are not included in those which they have already passed.

South Africa. A student who has passed the Matricn. Examn. of any S. African Univ. including English, Maths., Latin, and one other approved language is admitted without further examn. and, if a Med. student, is excused the special Prelim. Examn. in Arts.

Admission to Advanced Standing

Special regulations provide for the grant of credit for previous academic attainments at the Univs. of Oxford and Cambridge, while students or graduates of the following Univs., Aberdeen, Belfast, Birmingham, Bristol, Edinburgh, Glasgow, Leeds, Liverpool, London, Manchester, St. Andrews, Sheffield, Wales, and the National Univ. of Ireland, may be allowed credit *pro tanto* for the first two years in the examn. held at their expiration; but every such student must keep at least 2 yrs. at Trinity Coll.: and further, no medical degree can be taken without at least 3 yrs.' attendance.

Dominions (other than S. Africa), *India, and U.S.A.* Certain privileges in Arts are granted to approved students of the following Univs. and Colls.: Adel., Agra, All., Annamalai, Bom., Cal., Dacca, Dalhousie, King's Coll. (Halifax, N.S.), Laval, Lucknow, McGill, Madras, Melbourne, Nagpur, New Brun., N. Zeal., Panj., Patna, Queen's (Kingston, Ont.), Queensland, Rangoon, Saskatchewan, Syd, Tas., Tor., Western Ontario, and Univs. and Colls. in the U.S.A. approved by the Assn. of American Univs.

South Africa. Medical students are given credit for lectures and examns. in Zool., Bot., Chem., and Physics of any S. African Univ., and also for lectures and practical work in Anat. and Physiol., but not for the examn. in these last two subjects.

A student who has passed the Interm. Examn. of any S. African Univ. is permitted to present himself at the Final Freshman examn.,

with exemption from those subjects in which he has already passed at the Interm. Examn.

A student who has passed the B.A. examn. of any S. African Univ. is allowed credit for the first two collegiate years and for the Final Freshman examn.

In keeping terms students from S. Africa may present Dutch as their language.

Note. Medical students from Dominion and other approved Univs. may be granted concessions similar to, but in no case greater than, those at present given to South African students. Each case is to be decided, as regards Arts by the Lecture Committee, and as regards Medical Courses by the Committee of the School of Physic.

For further information application should be made to the Registrar of the School of Physic.

NATIONAL UNIVERSITY OF IRELAND

The Matricn. Examn., held twice a year, comprises six groups of subjects: (*a*) Irish, (*b*) Latin or Greek, (*c*) any modern lang. approved by the Senate, (*d*) English, (*e*) Maths., (*f*) Latin, Greek, any modern language approved by the Senate, Hist., Geog., Applied Maths. or Physics, Chem., Agric., Commerce, Music, Bot., and (for women candidates only) Physiol. and Hygiene. Candidates must pass in 5 subjects, but may present 6, if they so desire.

Those born in Ireland, whose home residence has not been outside Ireland during the 3 preceding years, must pass in Group (*a*). Others may present in lieu of Irish either a second language or a second Science subject; they will be expected to attend a course in Irish Lit. and Hist. before obtaining a degree in the Univ.

Exempting Examinations

Candidates who have passed in not less than 4 of the subjects prescribed for Matricn. at any of the following examns. may, provided such examn. has been passed as a whole, complete their matricn. by passing the fifth supplementary subject at the Matricn. Examn. of the Univ.

A. *Ireland*—Passes in the Senior Grade of Intermediate Board or the Leaving Certificate Examn. in any of the subjects recognized for matricn. are accepted as equivalent to passes in these subjects at the Matricn. Examn., even though the former examn. was not passed as a whole.

Great Britain—Provided that the subjects required have been passed, the Univ. accepts the following in lieu of their own Matricn. Examn.: the examns. numbered 1, 2 (Parts I. and II.), 3, 4 (except in Maths.), 5, 6, 8 (*a*), 9, 10, 15 (Higher), 16, 17.

Dominions—The Senior Public Examns. of Adelaide and Queensland, and the Matricn. Examns. of Sydney, Melbourne, Queensland, and New Zealand, and of the Matricn. Board of S. Africa. The Matricn. Examns. of other Univs. in the British Empire overseas (excluding India) are recognized only in combination with an Intermediate Examn. in Arts or Science.

Foreign—The Jaffa Gymnasium Maturité. The Matricn. Certif. of the Univs. of Switzerland, with (*a*) Latin and Gk., Mod. Langs. and Maths. or Nat. Sci., (*b*) with Mod. Langs., Maths. or Nat. Sci. and with an endorsement that Latin has been taken at a subsequent date.

B. Graduation in Arts or Science in any Univ. of the Dominions and Colonies (except India).

Special Regulations for Entrance to Faculties

Students entering for degrees in (1) Arts, Philosophy, and Celtic Studies, (2) Law, (3) Med. or Dentistry, (4) Science, Commerce, Agric., Dairy Science, Architecture, (5) Engin., must take: (1) subjects in the Matricn. groups (*a*), (*b*), (*d*), (*e*), (*f*); (2) Latin, and subjects in (*a*), (*d*), (*e*), (*f*); (3) Latin, (*a*), (*d*), (*e*), and a fifth subject; (4) one from each of (*a*), (*b*) or (*c*), (*d*), (*e*) and one other from (*f*); (5) one from each of (*a*), (*b*) or (*c*), (*d*), (*e*) and one other from (*f*), and must pass a Special Entrance Examn. in Maths., unless they have passed in Hons. Maths. in the Leaving Certif. Examn.

II

POSTGRADUATE SCHOLARSHIPS, ETC., AND GRANTS FOR ADVANCED STUDY AND RESEARCH

A. GREAT BRITAIN AND IRELAND

1. General and Travelling.
2. Adult Education.
3. Agriculture, Veterinary Science, etc.
4. Applied Science and Technology.
5. Architecture, v. 7.
6. Arts (General).
7. Arts (Special Subjects).
 - Art and Archæology.
 - Classics.
 - English Literature.
 - History.
 - History, etc. (British Empire).
 - History and Geog. (India).
 - International Relations.
 - Law.
 - Mathematics.
 - Modern Languages.
 - Music.
 - Oriental Languages.
 - Philosophy and Psychology.
8. Commerce.
9. Economics and Sociology.
10. Education.
11. Engineering (General).
12. Engineering (Special Branches).
 - Aeronautics.
 - Chemical Engineering, v. 18.
 - Electrical Engineering.
 - Mechanical Engineering.
 - Mining and Mining Engineering.
 - Naval Architecture and Marine Engineering.
13. Fisheries.
14. Journalism.
15. Medicine and Surgery (General).
16. Medicine and Surgery (Special Subjects).
 - Anatomy.
 - Bacteriology.
 - Biochemistry, v. 18.
 - Cancer.
 - Diseases of Children
 - Neurology and Psychiatry.
 - Obstetrics and Gynæcology.
 - Pathology.
 - Preventive Medicine.
 - Tropical Med. and Hygiene.
 - Tuberculosis.
17. Science (General).

18. Science (Special Subjects).
Biochemistry.
Biology.
Biometrics.
Botany.
Chemical Engineering.
Chemistry.
Mathematics, v. 7.
Metallurgy.
Physics.
Physiology.
Zoology.

19. Theology.

B. DOMINIONS

20. Canada.
21. Australia.
22. New Zealand.
23. South Africa.
24. India.

C. MANDATED TERRITORY

25. Palestine.

D. FOREIGN COUNTRIES

26. Belgium.
27. France.
28. Germany.
29. Holland.
30. Jugo-Slavia.
31. Sweden.
32. United States of America.

Information as to the provision made by the several Universities and other learned institutions for the promotion of advanced study and research by the offer of scholarships, fellowships, etc., limited to their own graduates or members, will be found under the heading "Scholarships, etc." in the sections of the *Yearbook* relating to those Univs. and institutions. Particulars of other aids to students for advanced work, not so limited, are given in this Appendix.

The reduction, under the stress of present economic conditions, in the number of available scholarships and of other provision for research, referred to in previous issues of the *Yearbook*, unfortunately still continues.

A useful *List of International Fellowships for Research* is published by the International Federation of University Women, Crosby Hall, London, S.W.3. Price 2s.

A. GREAT BRITAIN AND IRELAND

1. GENERAL

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN. *International Fellowship, see* United States of America.

BRISTOL UNIVERSITY. *Michael Hiatt Baker Scholarship*, value £200 p.a. Tenable by a graduate from New Zealand and normally held for 2 yrs., but may be renewed for a 3rd yr. The holder will normally be expected to spend 2 yrs. in research in the Univ. for a higher degree, but, with the approval of the Profs. concerned, may be allowed to spend some

period elsewhere. The scholarship may be held in any subject and is in the appointment of the Vice-Chancellor on the nomination of the Univ. of New Zealand.

BRITISH COUNCIL, 3 Hanover Street, W.1. Scholarships are awarded by the British Council to selected students from certain countries in Europe and the Near East. Arrangements for the selection of suitable candidates are in the hands of His Majesty's Representatives in the countries concerned.

BRITISH FEDERATION OF UNIVERSITY WOMEN, Ltd., Crosby Hall, Cheyne Walk, London, S.W.3. (i) International Residential Scholarship at Crosby Hall, value £100 for 1 yr., for research or other post-graduate work. Open to all members of the Internat. Fedn. Applications to be received by Jan. 1.

(ii) A Junior British Scholarship, value £100, subject and place of study optional, is offered from time to time to British women grads. not over 25.

Several other "occasional" postgraduate scholarships are also offered through the Fedn. Further particulars from the Secretary.

BRITISH INSTITUTE IN PARIS, 6 rue de la Sorbonne, Paris (V.). *Edward Esmond Scholarship*, value £100; three scholarships granted by the Leverhulme trustees and one by the Goldsmiths' Company, value £150 each; a number of scholarships awarded by the Institute ranging in value from £50 to £150 each. The scholarships are all tenable at the Institute for 1 yr. They are primarily intended for graduates of Universities in Great Britain and the Dominions who wish to follow an advanced course of study at the Univ. of Paris. Nominations for appointment are made by the Vice-Chancellors of the candidates' Univs. before March 31, to B. S. Townroe, 1 Old Burlington St., London, W.1.

CAMBRIDGE UNIVERSITY. *Bartle Frere Exhibitions*, for study or research in any branch of knowledge relating to any part of the British Empire except the U.K. and India. Tenable for 1 yr. but may be prolonged for a 2nd yr.

CAMBRIDGE UNIV.: CHRIST'S COLLEGE. A Research Studentship, £200 p.a. paid quarterly, for 2 yrs., prolonged for a 3rd yr. in exceptional circumstances, will be awarded at end of July 1939. Open to men who will have graduated before 1 Oct. 1939 at some Univ. other than Cambridge and who have not commenced residence at Cambridge at time of election. Candidates must have been born not earlier than 1 Oct. 1913. Each must declare that he intends, if elected, to proceed to the Ph.D. degree in the Univ. and either before or shortly after appointment must obtain permission to enter as a Research Student. Nominations must be made by and applications sent through, the head of the candidate's Univ. addressed to the Master, Christ's College, and should reach him before 1 July 1939.

CAMBRIDGE UNIV.: CLARE COLLEGE. *Denman Baynes Studentship*, £100 p.a., held usually for 2 yrs., open to grads of any Univ., with pref. to those of Cambridge and members of Clare Coll. Applications to the Tutor.

CAMBRIDGE UNIV.: EMMANUEL COLLEGE. Research Studentship, maximum value £150 p.a. for 2 yrs., with possibility of renewal. Open to a male graduate of any Univ. other than Cambridge or other qualified student beginning research at Cambridge, with a preference to one who has already done one but not more than 2 yrs.' research. The Studentship may be held by a student already endowed from other sources, if he can show that further assistance is necessary. Applications should reach the Master not later than June 30, and should be supported by two certificates of character, a birth certificate, brief account of career, with names of professors or teachers under whom applicant studied, precise statement of proposed course of research, and any evidence of general ability and of special fitness for proposed research. A studentship of the same value is open to graduates of the College.

Rooms in the College are assigned to the Lionel de J. Harvard Memorial student nominated by the President of Harvard Univ.

CAMBRIDGE UNIV.: ST. JOHN'S COLLEGE. (i) *Strathcona Research Studentships* in any branch of study. £200 for 1 yr., renewable for a 2nd yr. Open to graduates of any Univ. Applications to the Senior Tutor not later than June 1.

(ii) *Strathcona Research Exhibitions* in any branch of study. £40 for 1 yr., renewable for a 2nd yr. Open to graduates of any Univ. other than Cambridge. Applns. as above.

CAMBRIDGE UNIV.: TRINITY COLLEGE. A Research Studentship of value (dependent on the student's pecuniary circumstances) not exceeding £300 p.a., tenable during preparation for the Ph.D. degree in the Univ. of Cambridge is awarded annually. Open to men under 26 yrs. of age who have graduated at any Univ. other than Cambridge or are otherwise qualified, provided that they have not commenced residence in the Univ. of Cambridge. Tenure is conditional on entry as Research student and upon diligence in the approved course. Applications with certificates of birth, graduation, and character, record of education, any evidence of aptitude for research, and full account of pecuniary circumstances, must be submitted through the head of the candidate's Univ. and should reach the Senr. Tutor not later than May 1.

CAMBRIDGE UNIV.: GIRTON COLLEGE. *First Girton College Fellowship*, value £300 p.a., awarded to a woman of Univ. training, not necessarily a student of Girton, distinguished in some branch of intellectual work. Nominations hereafter to be made by Coll. for life or term of years at discretion. *Present holder* (for life), Mrs. Arthur Strong (Eugénie Sellers).

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Carnegie Scholarships and Fellowships in History, Economics, Mod. Langs. and Lit., Science, and Medicine. Scholarships, £150 p.a. for 2 yrs. with possible extension to 3rd yr. (£175 p.a.). Fellowships, £250 p.a. plus special expenses allowance, for 2 yrs. with possible extension to 3 yrs. Also a Fellowship of £250 in the History of Scots Law. Open to British graduates of Scottish Univs. in at least one of the above, for investigation of some problem or factor of modern civilization. Nominations to be

made by a Prof. or other head of Univ. Dept. Application forms supplied by the Carnegie Trust, 22 Hanover St., Edinburgh.

CECIL PEACE PRIZE. A prize of £100 is offered yearly for an essay on some subject connected with the maintenance of International Peace, and having some bearing on the principles or work of the League of Nations. Open to all graduates, undergraduates, and students of either sex and of any nationality, of any Univ. or Univ. Coll. in Gt. Britain or N. Ireland, under 25 on the last day for submitting essays. A prize winner is not eligible to compete a second time. Essays must be typed in double spacing and must bear a motto reproduced on a sealed envelope attached containing the name of author, address, and statement of date and place of birth. Length of essay not prescribed but 10,000-12,000 words suggested. Subject for 1939: "Aggression is an International Crime: What does this mean, and what is the remedy (Particularly illustrated by reference to the Czechoslovakia Crisis, February to October, 1938)?" Essays must reach the Secretary, Universities Bureau of the British Empire, 88A Gower St., London, W.C.1, on or before Nov. 1, 1939. Further particulars on application.

COLLEGE HALL, Malet St., London, W.C.1. *Pfeiffer Fellowship*, value £90 for one session. Awarded every 3rd yr. Candidates must be graduates of a British Univ. who are engaged in study for a higher degree, or in original work approved by the Council. Next award 1939–40. Applns. by June 1, 1939. Further particulars from the Principal.

COMMONWEALTH FUND FELLOWSHIPS. *See* United States of America.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship* for research, £64 for 1 yr. Awarded annually by the Faculties of Divinity, Law, Medicine, Arts, Science, and Music, in rotation. Open to grads. of any Univ. of not more than 5 yrs.' standing, and to undergrad. students of any Univ. who are proceeding to a degree in the yr. of award. A grad. of a Univ. other than Edinburgh must prosecute his research at Edinburgh Univ. 1939, Law. Applns. by May 15 to the Secretary of the Univ.

GOLDSMITHS' COMPANY. Senior Studentships (£1000 through Oxford, £1000 through Cambridge) not exceeding £250 p.a. open to British subjects under 26 years of age at date of application for assistance in post-graduate studies. Awards conditional on candidates taking First or Second Class Hons. in a Final School at Oxford or a Tripos at Cambridge, if they have not already done so. Students of Girton and Newnham are eligible on same terms as men. Renewable for 2nd year at option of Company. The holder must pursue his studies under the supervision of a recognized Univ. teacher in such place—either in England or elsewhere—as his teacher may approve. Applications with recommendation from Head of their Coll., 3 references to teachers, and programme of work must be addressed on or before May 24 to The Clerk, Goldsmiths' Hall, London, E.C.2, by whom the necessary forms will then be forwarded.

HENRY FUND. *See* United States of America.

LEVERHULME RESEARCH FELLOWSHIPS AND GRANTS in aid of Research. The Trustees of the Will of the late Lord Leverhulme, acting on the advice of an Advisory Committee, award a number of research fellowships for varying periods from 3 months up to 2 yrs. Applicants must be British-born " experienced workers " normally resident in the U.K., preferably men and women prevented from carrying out research either by pressure of routine duties or by any other cause. In exceptional circumstances the Trustees may waive the condition as to residence. Preference will be given to subjects in which existing provision is inadequate. The amount of individual grants is adjusted according to the circumstances of each case. Fellows will usually be required to work at, or in connexion with, a recognized centre of research either at home or abroad. 19 awards and 12 grants in aid of research were made in 1938. Closing date for applns. is March 1. Application forms and further information from the Secretary, Leverhulme Research Fellowships, Union House, St. Martin's-le-Grand, London, E.C.1.

LONDON UNIV.: ROYAL HOLLOWAY COLLEGE, Englefield Green, Surrey. (i) *Jubilee Research Fellowship*, tenable for 2 yrs. Intended to promote research work, preferably in those subjects in which Univ. courses are provided at the College. Open to women of any nationality who have already shown ability for research. The Fellowship includes all the privileges of a resident member of the staff, including board and residence in Coll. for about 45 weeks a yr. and a stipend of £200 p.a. paid terminally in advance. Next award probably 1940.

(ii) Postgraduate Studentships (4 or 5), value up to £120 p.a., awarded annually. Open to students of the Coll. who have completed 2 yrs.' residence and who wish to take up research or advanced study, and to graduates from elsewhere qualified to undertake research work.

Further particulars from the Principal's Secretary.

LONDON UNIV.: WESTFIELD COLLEGE (for women). Two *research studentships* open to graduates of any Univ. Value, one of £30, one of £60, plus free board and lodging and tuition fees at the College. Applications for ensuing academic year, to be made in Jan., must be accompanied by a scheme of work, 12 copies of 3 testimonials, and names of 2 referees.

MANCHESTER UNIVERSITY. (i) A limited number of Hon. Research Fellowships are offered to candidates who can satisfy the Faculty concerned that they are qualified for some special study or investigation. Fellows work under the direction of the relevant Prof., and Fellows in Experimental Science are allowed to use approved appliances in the laboratory. They must themselves provide special apparatus and materials. Tenable for 1 yr., renewable for 2nd and possibly 3rd yr. Further particulars from the Univ.

(ii) A limited number of Research Studentships, tenable at Hulme Hall, awarded annually, usual value 25 guineas a session, paid by deduction from terminal accounts for fees. Open to men graduates of any Univ. (not already members of the Hall) who are undertaking postgrad. or research work under one of the Univ. Professors. Application to be made in writing to the Warden (from whom further particulars may be

obtained), Hulme Hall, Victoria Park, Manchester, before August 30 (candidates from Southern Hemisphere before Jan. 30). Successful candidates must commence residence not later than beginning of October term following election (from Southern Hemisphere beginning of the Lent, or in special cases, of the Summer term).

OXFORD UNIV.: LADY MARGARET HALL. (i.) *Resident Research Fellowship*, value £300, open to women graduates of any Univ., given for 3 yrs. in first instance, with possibility of renewal.

(ii.) *Research Scholarship*, value £100, open to women graduates of any Univ., awarded for 1 yr. in first instance, with possibility of renewal for a 2nd yr.

OXFORD UNIV.: SOMERVILLE COLLEGE. *Lady Carlisle Research Fellowship*, not less than £200 a yr. for 5 yrs., renewable up to 10 yrs. Open only to women of European race and to naturalized Jewesses, who are unmarried or widows. Last award 1934. Next appointment will be considered in 1939.

ROSE SIDGWICK MEMORIAL FELLOWSHIP. *See* United States of America.

SIR RICHARD STAPLEY EDUCATIONAL TRUST. Constituted in 1919, to administer a fund to assist educational progress by subsidizing necessitous students, promoting educational experiment and research, etc. In 18 years it has assisted over 4000 students at universities. In 1933 the Trust published a report on the scholarship system with special reference to grants by Local Education Authorities, entitled "The Poor Student and the Universities." *Address*—The Secretary, 32 Gordon Sq., London, W.C.1.

SOUTHAMPTON UNIVERSITY COLLEGE. (i) A limited number of Honorary Research Fellowships are granted under the following conditions: (*a*) Except in special circumstances, the applicant must hold a degree of a Univ. within the British Empire; (*b*) Library and Laboratory facilities, including ordinary apparatus, are provided free of charge.

(ii) A minimum sum of £350 p.a. is allotted by Council for the provision of one or more open research scholarships of value not exceeding £150 p.a., tenable for 1 or 2 yrs., renewable in special circumstances for a 3rd yr. (iii) Any residue of (ii) may be awarded as maintenance grants to students engaged in approved research. (iv) Aid may also be given to meet incidental expenses connected with an approved and independent piece of research. Last date for application for scholarships or maintenance grants, June 1, 1939. Further particulars from the Registrar.

[The following instn. does not grant scholarships but makes loans.]

THE CENTRAL EMPLOYMENT BUREAU FOR WOMEN AND STUDENTS' CAREERS ASSOCIATION (Incorporated), 54 Russell Square, London, W.C.1, has a loan fund to help educated women who are without the means of training for professional work. No interest is charged. For University Education, Research Work, or technical Training of any kind loans are available. Amount of Fund, £9000.

Travelling

ALBERT KAHN TRAVELLING FELLOWSHIPS. No award has been made since 1931, and the fellowship must be regarded as in temporary abeyance. *Address* of the Secy. to the Foundation, University of London, W.C.1.

COLLEGE OF ESTATE MANAGEMENT. Travelling Scholarship in Estate Management. *See* Agriculture.

ENGLISH-SPEAKING UNION'S SCHOLARSHIPS. For British men and women teachers. *Page Travelling Scholarships*, £50 each and complete hospitality in the United States for one month at any period of the year desired; Senior Page Scholarship for two months, women only, £100. Similar Scholarships given by the A.A.M., N.U.T., and I.A.A.M. (for members of those Assns. only), value respectively £50 each. Two scholarships, also for women only, at the Chautauqua Institution, hospitality and free courses for 6 weeks. Applications receivable up to Feb. 19 by the Education Officer, English-speaking Union, Dartmouth House, 37 Charles St., Berkeley Sq., London, W.1.

FREE PASSAGES TO AUSTRALIA AND NEW ZEALAND AND BACK. The six chief passenger lines serving Australia and New Zealand place eight first-class return tickets, annually, at the disposal of the Committee of Vice-Chancellors and Principals for graduates of the Univs. of Great Britain and Ireland who wish to visit these Dominions (*a*) for the purpose of holding temporary teaching-posts, or (*b*) for the purpose of prosecuting research work into problems connected with their development and resources. Available *from* England, March 1–July 31; *to* England, June 1–December 31. Applications must be forwarded to the Universities Bureau through, and be supported by, the Vice-Chancellor or Principal of the graduate's Univ., and, if the applicant is no longer studying at a Univ., by the head of the institution or business by which he is employed.

THE INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN, Crosby Hall, Cheyne Walk, London, S.W.3, awards Travelling Fellowships for women graduates of all countries, available for a year's research work in some country other than that of the holder. Research fellowships are awarded annually, value £250. Further particulars from the Secretary.

OXFORD UNIV.: LADY MARGARET HALL. *Susette Taylor Fellowship* for independent study abroad. Value £150, open to women graduates of any Univ., with preference for Oxford. Awarded in first instance for 1 yr. with possible extension. Tenure from Sept. 1. Applications by beginning of Jan.

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarships* in Engineering, Electricity, Aeronautics and Music. Open to natives of Scotland of either sex. Value: Junior £50-£175, Senior £200-£600 p.a., according to circumstances, including place of study and nature of work contemplated. Normally tenable for 1 yr., but may be continued up to a maximum of 3 yrs. Applications to John Pearson, Solicitor, 7

Ward Road, Dundee, not later than Mar. 31 (Music, Feb. 28), from whom further information and application forms can be obtained.

THE CHARTERED SURVEYORS' INSTITUTION, 12 Great George St., London, S.W.1. Travelling scholarships, value £125, are offered annually for a postgraduate course of study at Cambridge Univ., or for the purpose of travelling. Open to persons who have already entered the profession and to graduates intending to do so. For further particulars apply to the Secretary.

2. ADULT EDUCATION

THE LANCASHIRE COUNTY COUNCIL EDUCATION COMMITTEE offer two Scholarships of value usually not less than £100 p.a. for encouraging non-vocational education among adult students fully engaged in industry. Age limits, 22 and 40. Evidence required of having devoted leisure time to study in a Univ. Tutorial class or in other ways. Tenable for a year, and renewable for a 2nd or 3rd yr. They are not intended for persons who desire to take ordinary three-year univ. courses in Arts, Science, Medicine, or Technology, nor for those wishing to qualify as teachers in Public Elementary Schools. The scholar will ordinarily be required to devote his whole time to study in a Univ. or other approved instn. Entry forms obtainable from the Director of Educn., County Offices, Preston.

3. AGRICULTURE, VETERINARY SCIENCE, ETC.

AGRICULTURAL RESEARCH COUNCIL, 6A Dean's Yard, Westminster, London, S.W.1. *Agricultural Research Scholarships, Studentships for Research in Animal Health* and *Veterinary Scholarships* are offered by the Ministry of Agriculture and Fisheries and the Department of Agriculture for Scotland on the recommendation of the Agricultural Research Council. The Agricultural Scholarships and the Studentships have as their object the training of students for research in agricultural science and in diseases of farm stock respectively. The Veterinary Scholarships are intended to enable graduates with honours in Science to obtain a veterinary professional qualification with a view to undertaking research in animal health. Though these Scholarships and Studentships do not carry with them any guarantee of subsequent employment, Agricultural Research Institutes and Advisory Centres may be expected, when filling vacancies in their junior staff, to give preference to such Scholars and Students. Forms of application and further particulars of these Scholarships and Studentships may be obtained, in the case of candidates resident in England and Wales, from the Secretary, Ministry of Agriculture and Fisheries, 10 Whitehall Place, London, S.W.1 ; or in the case of candidates resident in Scotland, from the Secretary, Department of Agriculture for Scotland, 29 St. Andrew Square, Edinburgh 2. Completed applications should be received by the Ministry or the Department on or before May 31.

At the present time four Agricultural Research Scholarships are offered annually. Candidates must be British subjects, and graduates with honours in science of a British Univ., or must possess equivalent

qualifications. The value of the Scholarships is £200 p.a., and they are tenable for not more than 3 yrs., part of which the scholar may be required to spend abroad. An additional allowance of a sum not normally exceeding £50 p.a. may be made in respect of certain approved expenses.

Three Studentships for Research in Animal Health are at present offered annually. Candidates must be British subjects, and must either possess a veterinary or medical qualification, or must be graduates with honours in science. Studentships are of an inclusive value not exceeding £300 p.a., and are tenable for not more than 3 yrs., part of which the student may be required to spend abroad. One or two Veterinary Scholarships tenable for not more than 4 yrs. may be awarded instead of a similar number of Studentships. Candidates must be British subjects and graduates with honours in Science who are able to claim exemption from the first professional examn. The value of a Veterinary Scholarship is £200 p.a. with allowances not exceeding £50 p.a.

Special research grants for specific investigations are made by or on the advice of the Agricultural Research Council in consultation with the Ministry of Agriculture and Fisheries or the Department of Agriculture for Scotland. Further information may be obtained from the Secretary of the Council at the address given above.

Travelling Fellowships are granted to Agricultural Research Workers on the advice of the Agricultural Research Council. Further information may be obtained from the Secretary, Ministry of Agriculture and Fisheries, or the Secretary, Department of Agriculture for Scotland, at the addresses given above. Application must be made before Dec. 31.

CAPE TOWN UNIVERSITY. *Smart Memorial Scholarship, see* South Africa.

THE COLLEGE OF ESTATE MANAGEMENT, 35 Lincoln's Inn Fields, London, W.C.2. *Travelling Scholarship* in Agriculture, value not over £300 for one yr. for study of Agricultural methods in this country or abroad. Open to British-born graduates of a British Univ. or those holding other approved qualifications. Candidates, who must be under 30 yrs. of age, must apply on a prescribed form to the Secretary of the College.

COLONIAL OFFICE. (i) Not more than 14 scholarships in *Agriculture*, usually tenable for 2 yrs., will be offered annually until further notice for Agr. Research or for General Agr. £200 p.a. (£225 abroad) plus tuition fees and any matriculation and examn. fees, passages, and certain other expenses. Candidates should hold a degree in Nat. Sci., preferably with honours, or in Agr. The holders will spend part of their course at the Imperial Coll. of Trop. Agriculture in Trinidad, or some similar institution. On completing their course they may be selected for appointment to the Colonial Agricultural Service.

(ii) A limited no. of postgrad. scholarships in *Veterinary Science* will be awarded annually until further notice for periods of from 1 to 4 yrs. £200 p.a. plus tuition fees and any matriculation and examn. fees. Candidates should normally hold a sci. degree of a British Univ. or the diploma of the Royal Coll. of Veterinary Surgeons, or a Vet. qualifica-

tion granted in one of the self-governing Dominions. On completing their training they may be selected for appointment to the Colonial Veterinary Service.

Further particulars obtainable from the Director of Recruitment (Colonial Service), 8 Buckingham Gate, S.W.1.

EMPIRE COTTON GROWING CORPORATION, King's Buildings, Dean Stanley St., Millbank, London, S.W.1. The Corporation have suspended for the present their postgraduate studentships. These studentships, when offered, are intended to provide opportunity to men of British nationality, either for additional training in research methods in, or for advanced study of, plant physiology, genetics, entomology, tropical agriculture, etc.

MANCHESTER UNIVERSITY. *Philip Buckle Research Scholarship* in Agric. Zool. £120 p.a. plus laboratory fees, renewable for 2nd yr. Open to graduates of British Univs. or other candidates possessing required qualifications, with preference to Science grads. of the Univ. Next award 1939. Last date of appln. June 20.

4. APPLIED SCIENCE AND TECHNOLOGY

BIRMINGHAM UNIVERSITY. Research Studentship in Oil Engin. and Refining, £240 p.a., and remission of tuition fees, renewable annually for not more than 3 further yrs. with increase of £20 p.a. to maximum £300. Candidates must possess a Univ. degree or equivalent in Science. Pref. to those with industrial lab. experience. Offered every alternate yr. Next award may be made in 1939.

GAS LIGHT AND COKE COMPANY, LIMITED, LONDON, award a Research Fellowship in Gaseous Fuel and Combustion in connexion with the Dept. of Chemical Technol. at the Imperial College of Science and Technology. Value, £175 for 1st yr. and at the rate of £200 p.a. if renewed for 2nd yr. No fee or other payment required. Further particulars from the Registrar, Imperial College of Science and Technology, London, S.W.7.

LEEDS UNIVERSITY. (i) Fellowships (£160) and Scholarships (£100-£140) instituted by the Clothworkers' Company for research in Textiles and Colour Chemistry, open to graduates of any Univ. Tenable for 1 yr. and renewable. Applications received up to June 1.

(ii) *Gas Research Fellowship*, £200 p.a., open to qualified candidate, with preference to one intending to enter the coal gas industry. Tenable for 1 yr. and renewable. Award made in June, after advertisement.

(iii) *James Edmondson Ackroyd Fellowship*, value not less than £150 p.a., for research work for the furtherance of the Textile Industry of the West Riding of Yorkshire. Preference to graduates in Sci. or Technol.; open to suitable candidates from other Univs., but preference *ceteris paribus* to natives of, or residents for not less than 5 yrs. in, Bradford. Awarded for 3 yrs., and renewable for further period not exceeding 3 yrs. Awards made in June; applications received up to May 1.

LINEN INDUSTRY RESEARCH ASSOCIATION, Lambeg, Co. Antrim, N. Ireland. Scholarship of £240 spread over 3 yrs. tenable at the Flax

Research Institute. Further particulars from the Secretary of the Association.

MANCHESTER UNIV.: MUNICIPAL COLLEGE OF TECHNOLOGY. Research Scholarships (15) in Technology, £70 each, open to graduates of any Univ. in the Empire and others possessing special qualifications. Last date of appln., July 4.

NOTTINGHAM UNIVERSITY COLLEGE. For postgraduate scholarships in Applied Science, *see* Science (General).

ROBERT BLAIR FELLOWSHIPS. Two fellowships in Applied Science and Technology awarded annually for advanced study or research in the Dominions, U.S.A., or other foreign countries. £450 each. Open to British subjects at least 21 yrs. of age. Preference to students of Engineering Science, and to those who have completed a course of study in London Institutions or been identified with the London teaching service. Applications receivable by the Education Officer, County Hall, London, S.E.1, up to June 1.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. The Commrs. offer *Industrial Bursaries* of not more than £143 p.a. for 1, 2, or, exceptionally, 3 yrs. to cover the period between leaving College and obtaining sufficiently remunerative employment in Industry. Open to British male subjects aged under 25 recommended through the executive authorities of such instns. as may be invited by the Commrs. to nominate. A candidate must have been a *bona fide* student of Science for a term of 3 yrs, should give evidence of practical ability likely to lead to his advancement in industrial work, and show that he has obtained, or can within a reasonable period obtain, an industrial post to be approved by the Commrs., and is in need of pecuniary assistance to enable him to hold such a post. 29 bursaries awarded in 1938.

Address: The Secy. to the Commrs., 1 Lowther Gardens, Exhibition Road, London, S.W.7.

SALTERS' INSTITUTE OF INDUSTRIAL CHEMISTRY. The Institute offers Fellowships to chemists of graduate standing to enable them to undergo a special further training at home or abroad for careers in chemical industry. The value of a Fellowship is normally from £250 to £300, but the Inst. is prepared to consider applns. which justify the award of a Fellowship of higher value. Further particulars from the Director, Salters' Hall, St. Swithin's Lane, London, E.C.4.

SHEFFIELD UNIVERSITY. (i) *Ironmongers' Company Research Fellowship* in Cold-working of Steel and other ferrous metals, £500 p.a. Tenable at Sheffield Univ., length of tenure not fixed. Date of next award uncertain.

(ii) *Ironmongers' Company Research Scholarships* (2), tenable at Sheffield Univ., £150 p.a. renewable from yr. to yr. for a period usually not exceeding 4 yrs. in all. Open to British subjects of Engl., Scottish, Welsh, or Irish birth, graduates or students of Sheffield Univ. or grads. of other Univs. Preference to candidates with special qualifns. in Engin. and in Physics respectively. Date of next awards uncertain.

(iii) Research Fellowships in Glass Technol. are offered from time to

time. Candidates should possess an Hons. degree with special training in phys. chemistry, physics, or metallurgy. The Fellows will be engaged under the direction of the Prof. on fundamental researches on the constitutions and properties of glass.

Further particulars in each case from the Registrar

5. ARCHITECTURE

See Art and Archæology

6. ARTS (General)

BRITISH FEDERATION OF UNIVERSITY WOMEN, LTD., Crosby Hall, Cheyne Walk, London, S.W.3. *Caroline Spurgeon Scholarship* in Arts, value £100 p.a. for 2 yrs., to enable the holder to carry on research or advanced postgraduate work while residing at Crosby Hall. Next award for 1941–43. Open to all members of the Internat. Fedn. Further particulars from the Secretary.

CAMBRIDGE UNIV.: GIRTON COLLEGE. (i) *Jex-Blake Fellowship* in Arts, value £250 p.a. for 3 yrs., for research in any branch of learning except Maths. and Nat. Sciences. Open to women who are graduates or have taken Hons. in a final degree examn. of any Univ., and to members of Girton Coll. Roll. Tenure as from July 1 or Oct. 1 at Fellow's option. Next award 1941.

(ii) *Pfeiffer Fellowship* in Arts, value £250 p.a. for 3 yrs. Conditions as for Jex-Blake Fellowship above. Next award 1940. Entries by Jan. 15.

Further particulars of both the above from the Secretary.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship, see under* General.

7. ARTS (Special Subjects)

Art and Archæology

BRITISH SCHOOL AT ROME. *The Rome Scholarships* in (i) Architecture, (ii) Mural Painting, (iii) Sculpture, (iv) Engraving. Each of the value of £250 p.a., tenable for 2 yrs. Open to Brit. subjects of either sex who are unmarried and under the age limits prescribed by the Faculties conducting the annual competitions. (v) *The Abbey Major Scholarship* in Mural Painting, tenable for 1 yr. and in other respects similar to the Rome Scholarships. (vi) *The Bernard Webb Studentship* for the historical and critical study of Architecture, tenable for about 1 yr., 6 mths. of which has to be spent in Italy, and open to students who have been members of the Architectural Assn. for 4 yrs. Value £250, awarded in alternate years. (vii) *Rome Scholarship in Archæology* and (viii) *Rome Scholarship* in *Mediæval Studies*, each of the value of £150 p.a., tenable for 2 yrs., and open to students under 30 yrs. of age, awarded in alternate years; (ix) *Rivoira Scholarship* in Mediæval Archæology, value £132 and tenable for 1 yr. Open to male graduates of Oxford and Cambridge; awarded every other year. (x) *Pelham Studentship* in Archæology, value £100, awarded in alternate years by the Univ. of Oxford. Further information regarding Faculty of Art Scholarships may be obtained

from the Hon. General Secretary, British School at Rome, 1 Lowther Gardens, Exhibition Road, London, S.W.7, and regarding Faculty of Archæology Scholarships from the Secretary, Faculty of Archæology, 50 Bedford Square, London, W.C.1.

BRITISH SCHOOL OF ARCHÆOLOGY AT ATHENS. Open from Nov. 1 to July 1. Any duly qualified British subject may be admitted as a member of the School and use the library. Students of the British School at Rome have the privilege of admission. There is residential accommodation at the School Hostel in Athens and at Knossos, Crete. Students also obtain special facilities for working in Museums and for travelling. The School awards a studentship of £100 each year tenable at the Univs. of Oxford and Cambridge in turn. About every 3 yrs. the *Sachs Memorial Studentship*, value £100, is open to all Univs. in the British Isles, and the *Macmillan Studentship*, £200 p.a., tenable for 2 yrs., open to men of British nationality. Funds are available from the *Seager Bequest* for the promotion and financing of excavations in Greece. Nominations must be sought through the Managing Committee. V. *also infra* Bursaries awarded by Royal Institute of British Architects. Further information may be obtained from the Secretary, British School of Archæology at Athens, 50 Bedford Square, London, W.C.1.

LEEDS UNIVERSITY, *Harold Tetley Postgraduate Studentship* in the History of Art in Yorkshire, value £200 p.a., tenable for 2 yrs. Next award October 1940. Applications to the Clerk to the Senate by June 1.

ROYAL INSTITUTE OF BRITISH ARCHITECTS. (i) *The Athens Bursary in Architecture*, £100, tenable at British School at Athens. Open only to members of teaching staff of a recognized school of the R.I.B.A. Offered for award every year. (ii) *The Henry L. Florence Bursary*, £350, for 1 yr., for the study of the Greek, Hellenistic and Byzantine Architecture of the Mediterranean Basin. Open to members of the R.I.B.A. Offered for award in alternate years. Next offered for award 1940–41. (iii) *The Goodwin and Wimperis Bursary*, £200, for the study of Modern Architecture abroad. Open under certain conditions to members and students of the R.I.B.A. and allied societies overseas. Offered for award in alternate years. Next offered for award 1940–41.

Further particulars from the Secretary, Board of Architectural Education, R.I.B.A., 66 Portland Place, London, W.1.

THE LONDON MUSEUM, Lancaster House, London, S.W.1. *Leverhulme Research Studentship* for Archæology or History connected with London, offered biennially, value £300 p.a. Open to all graduates without restriction. Next award April 1940. For further particulars apply to the Secretary.

Classics

BRITISH ACADEMY.—*Cromer* Greek Prize, £40. Open to British subjects under 26 yrs. of age. Essays on subjects previously submitted for approval to be sent in before Dec. 31. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

CAMBRIDGE UNIVERSITY. (i) *Craven Fund.* Grants may be made to the Craven Student or to any person engaged in research in the

Langs., Lit., Hist., Archæol. and Art of Ancient Greece and Rome, and the Compar. Philol. of the Indo-European Langs.

(ii) *Sir Perceval Maitland Laurence's Bequest.* Grants not exceeding £100 p.a. may be made in aid of research.

English Literature

BRITISH ACADEMY. *Rose Mary Crawshay* Prize for English Literature, £100. Open to women of all nationalities for historical or critical work, preference being given to work regarding Byron, Shelley, or Keats. Suggestions of works (written or published within the 3 preceding yrs.) to be considered may be sent in at any time, and will be considered in April of each year. Address—The Secretary, The British Academy, Burlington Gardens, London, W.1.

History

CAMBRIDGE UNIV.: GIRTON COLLEGE. Graduate Scholarship for Historical Research, £100. Usually open to graduates of any Univ. Offered from time to time.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under* General.

LONDON MUSEUM. *Leverhulme Research Studentship, see* Art and Archæology.

LONDON UNIVERSITY. (i) *Julian Corbett Prize,* value £50, open to any investigator admitted to the Institute of Historical Research who has been working either there or, if a naval officer, under the advice of the Committee of the Institute for not less than one yr. prior to date of sending in work for competition. The work shall be either a dissertation or an edition of an original document or documents, or a report on material at home or abroad illustrating modern naval history. Intending candidates must, on or before Oct. 1 in year preceding entry for the Prize, submit for the approval of the Inst. of Hist. Research Committee the subject of proposed work, and without such approval no work will be eligible. The prize is awarded annually, and applications should reach the Sec., Institute of Historical Research, University of London, The Senate House, London, W.C.1, before Oct. 1.

(ii) *Lindley Studentship,* value £120, awarded every 3rd yr. if there is a candidate of sufficient merit, for research in History to be undertaken at the Institute of Hist. Research. Open to both sexes: preference to a graduate of the Univ. or to candidate prepared to work for a higher degree of the Univ. Applications as above, before May 30, 1940.

LONDON UNIV.: UNIVERSITY COLLEGE. *Sir William Meyer Studentships* (endowment, £3000). 1 in European Hist., 1 in Hist. and Geog. of India, about £120 each, tenable for 2 yrs. Open to graduates of Univs. of the Empire studying for approved higher degrees of the Univ. of London. Applications to the Registrar of the Coll. on or before May 15. Next award June 1939—European History.

MANCHESTER UNIVERSITY. (i) *Edmund Roscoe Postgraduate Scholarship,* £50 for 1 yr., renewable for a second yr. Open to persons

of British nationality who have studied Hist. in any Univ. or Univ. Coll. Offered alternately with the Pickles post-graduate studentship. Next award 1940. Last date for applns. June 15.

(ii) *Pickles Postgraduate Studentship*, £50 for 1 yr., offered biennially, conditions same as for foregoing, except that there is no limitation to British subjects. Next offer 1939. Last date for applns. June 15.

TORONTO UNIVERSITY. *The Alexander Mackenzie Research Fellowships, see* Canada.

History, etc., of British Empire

THE ROYAL EMPIRE SOCIETY. (i) *Walter Frewen Lord Prize* in Imperial Hist. Annually, value £25, for a monograph or essay (10,000-20,000 words) on a subject of Imperial Hist. embodying either the results of orig. work or an ordered and critical exposition of existing data. Open to undergraduates or graduates of any Univ. or Univ. Coll. in the Empire of not more than 4 yrs.' standing from their first degree. Next award 1940. Applns. to be received on or before Dec. 31, 1939.

(ii) Grants from a small fund are made to facilitate the publication of orig. monographs embodying results of research relating to the British Empire oversea. Candidates must not be more than 35 yrs. on Dec. 31 of yr. of application. Monographs of not more than 60,000-80,000 words. Next award about end of Jan. 1940. Applns. before Dec. 31, 1939. Further particulars in each case from Asst. Secretary, Imperial Studies Committee, Royal Empire Society, Northumberland Avenue, London, W.C.2.

History and Geography of India

LONDON UNIV.: UNIVERSITY COLLEGE. *Sir William Meyer Studentships, see under* History.

International Relations

MANCHESTER UNIVERSITY. *Charles Harold Herford Exhibition*, £100 for 1 yr. payable quarterly. For study of International Relations, including Comparative Literature. Open to grads. of any Univ. The holder may be required to spend a part or the whole of the period of study abroad at an instn. or under conditions approved by the Senate. The Exhibition will normally be offered every 5 yrs. Next offer 1943. Last date for applns. April 15.

Law

CAMBRIDGE UNIVERSITY. (i) *F. W. Maitland Memorial Fund.* (Annual income about £100.) Grants may be made to any person engaged in any research in the History of Law or of Legal Language or Institutions, or for delivery of lectures, publication of works, etc., connected with these subjects.

(ii) *Whewell Scholarships* in International Law, one at least annually of £100 for 2, with possible extension to 3 yrs., open to men and women, whether already members of the Univ. or not, who are under 25.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. Fellowship in Scots Law, *see under* General.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship, see under* General.

FLETCHER SCHOOL OF LAW AND DIPLOMACY. *See* United States of America.

LINCOLN'S INN, London, W.C.2. (i.) *Cassel Scholarships* (each to the value of £600, *i.e.* £200 p.a. for 3 yrs.), " for the encouragement of the study of the Law and the advancement of legal education." One to be awarded annually.

(ii.) *Cholmeley Scholarships,* each value £400. Four normally awarded annually to members of either Oxford or Cambridge Univ.

Candidates for both (i.) and (ii.) must be British subjects who intend to follow actual practice at the Bar in England or the teaching of Law in a Univ. in the U.K. The selected candidate, if not already a member of Lincoln's Inn, must become and remain one. Further particulars from the Under-Treasurer. Applications for the present year to be received not later than March 23, 1939.

Mathematics

CAMBRIDGE UNIV. : GIRTON COLLEGE. *M.T. Meyer Studentship* for research in Maths., or for a course of advanced study leading up to such research. Open to graduates of any Univ. Offered annually.

MANCHESTER UNIVERSITY. *Bishop Harvey Goodwin Mathematical Scholarship,* £60-£70 (in special cases of greater value) for 1 yr. Open to Hons. grads. in Maths. of Manchester or to other suitably qualified candidates intending to pursue research in Maths., Pure or Applied. Next offer 1939. Last date for applns. June 20.

THE ROYAL SOCIETY. *Jarrow Research Professorships, see* Science (General).

Modern Languages

BOURSES UNIVERSITAIRES. *See under* France.

BRITISH INSTITUTE IN PARIS. *Edward Esmond Scholarship, etc., see under* General.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under* General.

DEUTSCHE AKADEMIE, Munich. *Thomas Carlyle Stipendium, see under* Germany.

HANSEATIC SCHOLARSHIPS. *See under* Germany.

JUGO-SLAV GOVERNMENT SCHOLARSHIP. *See under* Jugo-Slavia.

LONDON CHAMBER OF COMMERCE. From the *Charles R. E. Bell Fund* two scholarships, value £150 each, are offered annually for continuous residence and language study for not less than 6 months in a foreign European country. Open to approved male candidates between 16 and 23 yrs. of age whose parents are natural-born British subjects.

Candidates must pass the Chamber's Higher examn. in English, and pass with distinction in one foreign language. Address—Commercial Education Dept. of the London Chamber of Commerce, 69 Cannon St., London, E.C.4.

Music

EDINBURGH UNIVERSITY. *Richard Brown Scholarship, see under* General.

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarship* in Music, *see under* General (Travelling).

Oriental Languages

HEBREW UNIVERSITY, Jerusalem. *Lord Plumer Fellowship, see* Palestine.

LONDON UNIVERSITY. *Ouseley Memorial Scholarships*, 1 in Arabic, 1 in Persian, 1 in Urdu (or, in certain circumstances, in Chinese, Sanskrit, Hindi, or Bengali). £50 each for 1 yr. in the first instance, tenable at a College or School of the Univ. or, provided the candidate has already so studied for an academic year, in an Oriental country. Open to candidates of European origin. Full particulars from, and applications (on a prescribed form before March 15) to, the Academic Registrar, Univ. of London, W.C.1.

Philosophy and Psychology

CAMBRIDGE UNIV.: NEWNHAM COLLEGE. *Sarah Smithson Fellowship* in Psychology or Philosophy (incl. Class. Philos.), £250 p.a. for 3 yrs. Open to graduates of any Univ. Awarded on dissertation or other written work. Next award 1941. Applications to The Principal before May 1.

THE CHILD GUIDANCE COUNCIL, Woburn House, Upper Woburn Place, London, W.C.1. Three Fellowships in Psychology, each £150, for 6 mths. full-time or 1 yr. half-time training, beginning in Oct., at the London Child Guidance Clinic, 1 Canonbury Place, Islington, N.1. Period of training may be adjusted in special circumstances. Open to candidates holding an Hons. degree in Psychol. or its equivalent. Teaching experience, or some form of social service connected with children, approved by the Council, is essential. Further information and forms of application from the Secretary of the Council.

8. COMMERCE

BRADFORD CHAMBER OF COMMERCE, Commerce House, Bradford, Yorks. Endowment (John Speak Foundation), £40,000, established Dec. 1924, for making grants for maintenance of British-born students (preferably Yorkshiremen) in foreign countries with the view of promoting commerce between England and such foreign countries. Grants are for 6 months' residence, and may be renewed up to 18 months. Holders will be expected to be affiliated to business firms of good standing in the countries they go to. Application forms (price 1s.) obtainable from the Secretary.

9. ECONOMICS AND SOCIOLOGY

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under* General.

THE CO-OPERATIVE UNION. *Acland Travelling Scholarships* (Exec. Committee of the Labour Party and Co-op. Union Central Board) for investigation of industrial, social, or ednl. conditions abroad. £200-£250 for 9-12 months. Open to British candidates, 20-30 yrs. of age, with sufficient knowledge of foreign langs. (or who acquire it) for the work. Applications to Mr. R. A. Howson (Sec. to the Trustees), The Co-operative Union, Ltd., 18 Prescot St., London, E.1.

THE GARTON FOUNDATION, 1 Lowther Gardens, Exhibition Rd., London, S.W.7. *Studentship*, value £400, for study, during a year or more, of social or economic problems of fundamental importance. Open to British subjects not exceeding 30 yrs. of age nominated (on invitation) by certain Universities of the Empire. Candidates must submit a thesis and propose a subject for research. Awarded ordinarily in alternate years. Applications by May 1. Last award 1938.

LONDON UNIVERSITY. (i) *Leon Fellowship for Research*, preferably in the fields of Economics or Education, value £400 p.a., tenable in the first instance for 1 yr. It is not essential that candidates should be members of a Univ. Full particulars from and applications (before April 1) to the Principal, University of London, The Senate House, W.C.1.

(ii) *Metcalfe Studentship* for women, value £70 for 1 yr., tenable at London School of Economics. Open to any woman graduate of a United Kingdom Univ. for research on some social, economic, or industrial problem approved by the Univ.; preference to a student proposing to study a problem bearing on the welfare of women. Further particulars from, and applications (before May 24) to, the Academic Registrar, Univ. of London, The Senate House, W.C.1.

LONDON UNIVERSITY: BEDFORD COLLEGE FOR WOMEN. *Lady Huggins Scholarship* in Sociology, open to graduates of approved Univs., value approx., £120. Awarded from time to time as funds permit. Last award 1938. Further particulars from the Registrar.

LONDON UNIV.: LONDON SCHOOL OF ECONOMICS.

(i) *Research Studentships*, £200 or £150 p.a. plus fees, tenable at the School for 2 yrs., for research in Econ. or Pol. Sci. are offered from time to time. Applns. by Sept. 12.

(ii) *Women's Studentship*, £150 p.a. plus fees, tenable at the School for 2 yrs., for research in Econ., Hist., or Social Sci. Next award 1941.

(iii) Two *Leverhulme Postgraduate Scholarships*, £120 for 1 yr., for course of vocational training (*e.g.* in Business Administration or Civil Service Course) in year immediately following graduation. Applns. by Sept. 12.

(iv) *Bursaries* for Business Administration (not exceeding 4) equivalent to full fees, for postgraduate 1 yr. course in Business Administration. Open to graduates who can show evidence of financial need. Applns. by Sept. 12.

MANCHESTER UNIVERSITY. (i) *Drummond-Fraser Research Fellowship* in Econ. and Commerce. £100 for 1 yr. Open to graduates of any approved Univ. Offered annually. Applns. by June 1.

(ii) *Jevons Studentship*, £120 for 1 yr., for investigation of some economic problem connected with the industries of Lancashire. Open to grads. of any Univ. Offered in every sixth year. Last award 1936.

(iii) *Maclaren Cotton Industry Research Scholarship*, £100 for 1 yr. Open to grads. of not more than three years' standing, for encouragement of research in a subject bearing upon the cotton industry. Next offer 1939. Last date for applns. June 1.

10. EDUCATION

BOARD OF EDUCATION, Whitehall, London, S.W.1. A limited number of Studentships may be awarded to assist suitable teachers in recognized schools and instns., of not less than 5 yrs.' teaching experience, to undertake at Univs. or other instns. full-time courses of advanced study which may reasonably be expected to lead to improved teaching ability. If an academic course, it should be of at least post-graduate type. Proposals to carry out research embodying travel or the practical study of industrial conditions definitely connected with the teaching of technical subjects will be considered. The grant may be made for not less than a term or more than a year. The amount depends on the candidate's circumstances and the length and nature of course proposed, and the rate will not exceed £200. Further particulars and appln. forms obtainable from the Secretary.

THE CO-OPERATIVE UNION. *Acland Travelling Scholarships, see under* Econ. and Sociology.

LONDON UNIVERSITY. *Leon Fellowship for Research, see under* Economics and Sociology.

MANCHESTER UNIVERSITY. Graduate Bursaries, not more than 6 annually. Free entry to Diploma Course. Open to graduates or the equivalent, of not more than two and a half yrs.' standing, of any Univ. in Gt. Britain and Ireland. Preference, in the case of three, to grads. of Manchester. Applns. by June 20.

RHODES UNIVERSITY COLLEGE, Grahamstown. *See* South Africa.

SOUTHAMPTON UNIVERSITY COLLEGE. An open Exhibition providing free instruction for a post-grad. course in Education is offered annually. Cannot be held in conjunction with any other scholarship or State-aided place in the Training Dept. Candidates must satisfy the Univ. of Cambridge as to their eligibility to sit for the Cambridge Post-grad. Certif. Examn. in Education. Further particulars from the Registrar.

11. ENGINEERING (General)

BOARD OF EDUCATION, Whitehall, London, S.W.1. *Whitworth Scholarships* (maintained by Sir Joseph Whitworth's Foundation), five of £150 p.a. for 3 yrs., three of £150 for 1 yr. (value may be increased on proof of need), and two Senior Scholarships of £300 for 2 yrs. Open

to British subjects under 24 yrs. of age for the middle group, and 26 for the first and last group, who have been engaged in handicraft in a mech. engineering workshop for at least 30 months ; awarded on result of examn. held usually at end of April. Applications receivable up to Jan. 15. Regns. with syllabus obtainable (3d.) from H M. Stationery Office, Kingsway, London, W.C.2.

MANCHESTER UNIVERSITY. (i.) *Osborne Reynolds Research Fellowship* for research in Eng. or in sciences most directly related thereto. £200 p.a., renewable. Open to graduates of any Univ. Appln. not later than May 1.

(ii.) *Joseph Roberts Greatorex Scholarship* for research in Eng., £200 p.a., renewable for a 2nd yr. (value may be increased if funds allow). Open to grads. of Manchester who have subsequently completed at least one yr.'s research in Eng. and to other suitably qualified candidates. Next offer 1939. Appln. not later than June 20.

THE ROYAL SOCIETY. *Jarrow Research Professorships and Warren Fellowships, see* Science (General).

SCOTTISH UNIVS. *Sir James Caird Travelling Scholarships* in Engineering, etc, *see under* General (Travelling).

12. ENGINEERING (Special Branches)

Aeronautics

BUSK TRUSTEES. *Busk Studentship* for research in Aeronautics. Value about £150 p.a., tenable for 1 yr. with possible renewal for 2nd yr. Open to British subjects (not of Asiatic or African descent) under 25. Tenable at home or abroad subject to Trustees' approval. Applications to be received usually about the middle of June. Further particulars from Prof. B. Melvill Jones, Engineering Laboratory, Cambridge.

Chemical Engineering

See Science (Special Subjects)

Electrical Engineering

BIRMINGHAM UNIVERSITY. *General Electrical Company Research Fellowship* in Electrical Engineering, £300 for 1 yr., renewable ; tenable in the Dept. of Electrical Engineering. Candidates should be graduates of a British University and should have adequate experience in an electrical undertaking. In certain circumstances 2 postgraduate scholarships, value £150 p.a. each, may be awarded instead of the Fellowship.

Mechanical Engineering

BIRMINGHAM UNIVERSITY. (i) *Jas. Watt Fellowship* in Mech. Engin., £250, tenable for 1 yr. in the Dept. of Mech. Engin , renewable. Candidates should be Hons. graduates in Engin. of a British Univ., preference to those who have had at least 1 year's experience of postgrad. research.

(ii) *Jas. L. Norton Memorial Studentship*, £100, tenable for 1 yr. preferably in the Univ., for whole-time study of motor-cycle engin. problems.

See also Applied Science and Technol. and Engineering, General.

Mining and Mining Engineering

THE ROYAL SOCIETY. *Tyndall Research Fund, see under* Science (General).

Naval Architecture and Marine Engineering

THE INSTITUTION OF NAVAL ARCHITECTS, 10 Upper Belgrave Street, London, S.W.1. *Sir William White Postgraduate Scholarship* (part-time) in Naval Architecture (incl. Shipbuilding and Marine Eng.), £150 p.a. for 2 yrs., awarded biennially. Other professional work may be carried on concurrently, subject to Council's approval. Open to British students under 30 yrs. of age who have attained distinction at either the R.N. Coll., Imperial Coll. (City and Guilds Engin. Coll.), Glasgow Univ., King's College, Newcastle upon Tyne, or Liverpool Univ., and have had practical experience in shipbuilding or marine eng. work. Nominations are made by the Governing Bodies of the above instns. to the Council of the Instn. of N.A.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851. Post-graduate scholarship in Naval Architecture. £250 p.a. for 2 yrs. for research work (for which no other emolument will be receivable) in problems connected with design and construction of ships and their machinery and in the development of the shipbuilding industry at home and abroad. Open to British subjects under 30 who have had at least 3 yrs.' practical experience as apprentices or otherwise and have passed with marked distinction through a course of study in Naval Arch. at, and been nominated by, the R.N. College, Greenwich, Univ. of Glas. or Liv., or King's College, Newcastle upon Tyne. The nominations are reported on by the Council of the Instn. of Naval Architects.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

13. FISHERIES

DEVELOPMENT COMMISSIONERS, 6A Dean's Yard, Westminster, London, S.W.1. Researches likely to lead to results bearing on the development and improvement of fisheries are eligible for advances from the Development Fund. These include occasional special grants to enable individual research workers to pursue original lines of investigation which may be recommended by the Commissioners' Advisory Committee on Fishery Research.

The Commrs. are also prepared to consider applications for additional grants for temporary assistants and for apparatus, etc., to enable members of the staff of a Marine Institution to prosecute special lines of inquiry.

LIVERPOOL UNIVERSITY. *Herdman Scholarship* in Marine Zoology,

value, interest on £1020, for 1 yr., renewable for 2nd yr. Open to grads. of Liverpool or any other British Univ., qualified to carry on research at the Univ. and at the Port Erin or other Biological Station. Applications to the Dean of the Fac. of Science not later than first day of Summer Term.

MARINE BIOLOGICAL ASSOCIATION. *Ray Lankester Fund*, £100. Student Probationership, £200. *See* App. III., A. III. 1.

14. JOURNALISM

LONDON UNIVERSITY. *Scholarships* for courses in Journalism, varying in value from £60 to £100 p.a., tenable for 2 yrs. at King's Coll., are offered from time to time. Candidates who have matriculated in the Univ. must be not more than 17 and other candidates not less than 18, and not more than 20 yrs. of age on Sept. 30 in the year of examn. for the Exhibition. Particulars published early in each year, obtainable from the Academic Registrar, Univ. of London, The Senate House, W.C.1.

15. MEDICINE AND SURGERY (General)

THE ASSOCIATION OF SURGEONS OF GT. BRITAIN AND IRELAND. *Moynihan Fellowship*, value £350 for 1 yr., awarded annually for study at specified clinics at home or abroad. Intended for young surgeons at commencement of career. Applications before Sept. 30 to the Hon. Secretary, 50 Wimpole St., London, W.1.

BEIT MEMORIAL FELLOWSHIPS FOR MEDICAL RESEARCH. Founded in 1909 by Sir Otto Beit, Bart., K.C.M.G., F.R.S., in memory of his brother Alfred, " to promote the advancement by means of research of Medicine and the allied sciences in their relation to Medicine." Open to graduates, men or women, of pure European descent, in any Faculty of a Univ. in the British Empire. Six Junior Fellowships, each of £400 p.a. more or less and usually tenable for 3 yrs., are awarded in July for work commencing in October. An extension to a fourth year at £500 is sometimes granted. Notice of each election is published 3 mos. in advance. Applications are considered by an Advisory Board. Senior Fellowships of £700 p.a., tenable for 3 yrs., may also be awarded to persons who have already held Junior Fellowships. *Address* of Hon. Sec. to the Trust—Prof. T. R. Elliott, M.D., F.R.S., University College Hospital Medical School, University St., London, W.C.1.

BIRMINGHAM UNIVERSITY. *Caroline Harrold Research Fund, see under* Science (General).

BRITISH MEDICAL ASSOCIATION, British Medical Association House, Tavistock Sq., London, W.C.1. (i) *The Ernest Hart Memorial Scholarship*, (ii) *The Walter Dixon Scholarship*, annual value of each not more than £200. (iii) 3 other Research Scholarships, annual value of each not more than £150.

Each Scholarship is tenable for 1 yr. commencing Oct. 1, with possible reappointment for not more than 2 addnl. terms. Open to candidates recommended by the Science Committee as qualified to undertake

research in any subject (incl. State Med.) relating to the causation, prevention, or treatment of disease. Preference given to members of med. profession. Scholars may be allowed to hold a junior appointment at a Univ., Med. School, or Hospital. Another scholarship may be held concurrently, but the scholar shall not receive from the B.M.A. a sum greater than is required to bring the total received in one year to £400.

(iv) *Science Grants* of an aggregate value not exceeding £150 p.a. for the assistance of research into the causation, treatment, or prevention of disease; preference to members of med. profession for investigation of problems directly related to practical medicine.

Applications for any of the above to be made on prescribed form to be obtained from the Secretary. Closing date for 1939–40 awards, May 6, 1939.

CAMBRIDGE UNIVERSITY. (i) *Elmore Medical Research Studentships.* Open to male graduates of any Univ. born at any place within the British Empire other than Scotland for research in medicine at or from Cambridge Univ. Normally tenable for 2 yrs. but may be renewed. Annual value determined by the Board of Managers in each case—(1938, £300). Further particulars from the Regius Professor of Physic, Dept. of Medicine, Univ. of Cambridge. (ii) *Gwynaeth Pretty Research Studentship*, of £200 for 3 yrs., for research in the Aetiology, Pathology, or Treatment of Disease with particular reference to diseases which disable in childhood or early life. Candidates need not be members of the Univ. Offered triennially or as casual vacancies occur.

CAPE TOWN UNIVERSITY. *Jacobus Stephanus Marais Memorial Research Fund, see* South Africa.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND, *see under* General.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship, see under* General.

GROCERS' COMPANY. One scholarship each year for the encouragement of original Medical Research tenable for 2 yrs., of the value of £300 for first year, and of £450 for second yr. Cost of each scholar's apparatus, etc., will be defrayed up to £150 in any one year. No other scholarship to be held or remunerative employment undertaken without sanction. Open to British subjects under 35 yrs. of age. Applications in prescribed form receivable before April 1 by the Clerk, Grocers' Hall, Princes Street, London, E.C.2.

LONDON UNIVERSITY. (i) *Mary Scharlieb Research Studentship* for postgraduate medical research. £250 for 1 yr., renewable for 2nd yr. To be awarded from time to time.

(ii) *Rogers Prize*, value £100, for an essay or dissertation on some medical or surgical subject named and appointed by the Univ. and made public in such manner and at such time as the Univ. may determine. Open to all persons on the Medical Register of the U.K. The essay or dissertation to be addressed under a motto or device to the Vice-Chancellor, and delivered at the Univ. on or before 4 P.M. on the

last day, other than Sunday, of April in the yr. of award. Next award, 1941.

LONDON UNIV.: LONDON SCHOOL OF MEDICINE FOR WOMEN. *Dr. Edith Pechey Phipson Postgraduate Scholarship* in Medicine. £95 for 1 yr. with possible renewal for 2 further yrs. Open to all medical women, with preference to those from or going to work in India. Forms of application to be obtained from and sent in by Mar. 1 each yr. to the Secretary, 8 Hunter Street, London, W.C.1.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1, formerly the Medical Research Committee established in 1913 under the Nat. Health Insurance Act, transferred by Royal Charter, 1920, to a Committee of the Privy Council. They apply money voted by Parliament or received from private sources for the furtherance of medical research. *Research grants* are made to qualified investigators in respect of approved programmes of work to be carried out in Univs., Medical Schools, Hospitals, or other institutions. Names of recipients and accounts of the schemes of research supported are given in the Council's Annual Reports published by H.M. Stationery Office. Grants may be either personal, *i.e.* to provide remuneration in respect of whole-time or part-time work devoted to particular subjects approved by the Council, or for expenses necessarily incurred in the prosecution of the approved researches.

In addition, for training in research in clinical science and experimental pathology, the Council award *Postgraduate Studentships* of £200 p.a. inclusive, tenable for one year (up to 6 annually); and *Research Fellowships* of £250-300 p.a. plus expenses, tenable for one or two years (up to 4 annually). Fellows who show special ability in research may be considered for permanent appointments.

Travelling Fellowships in Medicine are awarded on behalf of the Rockefeller Foundation for periods of study abroad. £360 p.a. (£480 for married men) plus travelling expenses, tenable for one year (about 6 annually). *See also under* Tuberculosis.

A Tropical Medical Research Committee was established by the Medical Research Council in 1936 to enable it to take a more active part in the field of Tropical Medicine and to assist investigations in the tropics. Senior and Junior Research Fellowships are awarded. (*See under* Tropical Medicine.)

ROYAL COLLEGE OF PHYSICIANS, Edinburgh: (i) *Freeland Barbour Fellowship*, value about £100, awarded biennially; next award May 1939. Open to those who have done original work for the most part in the two preceding yrs. in the Laboratory of the Royal Coll.

(ii) *Lister Fellowship*, value about £100, awarded biennially, next award May 1940, open to licentiates or graduates in Med. or Surg. for original research carried on for the most part during the two preceding yrs. in the Laboratory of the Royal Coll.—preference to research in Bacteriology.

(iii) *Parkin Prize*, value £100, offered triennially for an Essay in the English Lang. Open to competitors of all nations. Essays, which must bear a motto and be accompanied by a sealed envelope bearing

the same motto outside and the author's name inside, must reach the Secretary not later than Dec. 31, 1939. Subject: "On the curative effects of carbonic acid gas or other forms of carbon in cholera, the different forms of fever and other diseases."

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. (i) *Leverhulme Research Scholarships* (2), £500 for 1-3 yrs. Open to British subjects not less than 25 yrs. of age for research in Medicine. (ii) *Streatfeild Scholarship*, approximately £250 for 1-3 yrs., for research in Medicine or Surgery. For particulars apply to the Assistant Registrar, Pall Mall East, London, S.W.1.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND. *Mackenzie Mackinnon Research Fellowship*. For 1-3 yrs. Open to holders of med. qualification registrable in Gt. Britain or Ireland, or of a Univ. degree, nominated by a Med. School. Application to Secretary, Royal College of Surgeons, Lincoln's Inn Fields, London, W.C.2.

ROYAL COLLEGE OF SURGEONS, Lincoln's Inn Fields, London, W.C.2. *Leverhulme Research Scholarships*, two value £400 each, plus £100 for expenses, for 1 yr., renewable. For research in some biological or clinical problem of disease in man, either at the Buckston Browne Surgical Research Farm, Downe, Kent, or at the College laboratories. Open to British subjects holding a med. qualification registrable in the U.K. or a Univ. degree. Further particulars from the Secretary.

ROYAL SOCIETY. *Foulerton Research Fund* and *E. Alan Johnston and Lawrence Fellowship, see under* Science (General).

ROYAL SOCIETY OF MEDICINE. *William Gibson Research Scholarship* in Medicine, £290 p.a. for 2 yrs., renewable for a third yr. Awarded from time to time to qualified med. women who are British subjects. Unrestricted travelling allowed for purposes of research undertaken. Applications to the Secretary, 1 Wimpole St., London, W.1.

WILL EDMONDS CLINICAL RESEARCH FUND, 68 Gt. Cumberland Place, London, W.1. Will Edmonds Fellowship, £500 for 1 yr., renewable annually for a total period of 5 yrs. Open to qualified and registered med. practitioners for clinical research in a metropolitan hospital. Applications to the Hon. Secretary.

16. MEDICINE AND SURGERY (Special Subjects)

Anatomy

MANCHESTER UNIVERSITY. *Morrison Watson Fellowship* in practical and descriptive anatomy, £150 p.a. and occasionally more; renewable for 2nd yr. Open to persons with a medical qualification registrable in the U.K. or a degree of an approved Univ. Applns. not later than June 1.

Bacteriology

LIVERPOOL UNIVERSITY. *John W. Garrett International Fellowship* in Bacteriology, £100 for 1 yr., offered annually, renewable for 2nd and

3rd yr. Failing a candidate in Bacteriol., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Univs. and Med. Schools in the U.S.A., and of other foreign Schools. Applications to be sent to the Dean of the Fac. of Med. not later than May 31.

LONDON UNIV.: LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Jenner Memorial Research Studentship*, £250 for 1 yr. with possible extension for 2nd year. Open to British subjects. Vacancies advertised in medical journals.

ROYAL COLLEGE OF PHYSICIANS, Edinburgh. *Lister Fellowship*, *see* Medicine and Surgery (General).

Biochemistry

See under 18, below.

Cancer

LEEDS UNIVERSITY. *Cancer Research Fellowships*, given through Yorkshire Council of the British Empire Cancer Campaign. 5 in number, value not exceeding £500. Tenable for 1, 2, or 3 yrs., renewable. Vacancies announced as they occur. Applns. to the Clerk to the Senate.

LONDON UNIVERSITY. *Laura de Saliceto Studentship* for advancement of Cancer research, value £150 for 2 yrs., renewable by annual reappointment for total of not more than 5 yrs. Open to both sexes. The Studentship is a part-time appointment and may be held in conjunction with a physiol. or pathol. laboratory appointment or a clinical appointment affording special opportunities for study of Cancer. Vacancies in the Studentship will be advertised in the public press. Applications before July 1 of year of appointment. Further particulars from the Academic Registrar, Univ. of London, The Senate House, W.C.1.

MANCHESTER UNIVERSITY. *Pilkington Fellowship* in Cancer research. £300 p.a., renewable for 2nd yr. or more. Open to graduates in Med. or Surg. of any approved Univ. or Med. School, or to members or Fellows of the R. Colls. of Surgeons of England, Edinburgh, or Ireland, or Licentiates, Members or Fellows of the R. Colls. of Physicians of London, Edinburgh, or Ireland. Applns. by June 30.

[The following body does not make grants to individuals for research, but supports and promotes research by making grants to existing research organizations.]

THE BRITISH EMPIRE CANCER CAMPAIGN was founded in May 1923 to co-ordinate and support research on cancer throughout the Empire. The governing body includes representatives from most of the principal hospitals with cancer research depts. The Scientific Advisory Committee is appointed jointly by the Royal Society, the Medical Research Council, and the Campaign. The Radiology Committee of the Medical Research Council, with representatives of the Campaign, acts jointly for

both bodies. *Address*—Capt. E. J. C. Chapman, M.C., Genl. Secy., 11 Grosvenor Crescent, Hyde Park Corner, London, S.W.1.

Diseases of Children

LIVERPOOL UNIVERSITY. *Ridgway Research Scholarship*, value about £94, tenable for 1 yr. for research in some branch or branches of Tuberculosis or crippling diseases of children. The Scholar must be a graduate in Med. of an approved Univ. (or hold a registrable qualification). Application, stating academic career and subject of proposed investigation, to be sent to the Dean of the Fac. of Med. not later than Sept. 30.

MANCHESTER UNIVERSITY. *Ashby Memorial Research Scholarship* in diseases of children. £100 offered triennially. Open to any med. practitioner registrable in England. Next award 1939. Last day of entry June 30.

Neurology and Psychiatry

THE CHILD GUIDANCE COUNCIL, Woburn House, Upper Woburn Place, London, W.C.1. Three Fellowships in Psychiatry, £300 for 1 yr. half-time training at the London Child Guidance Clinic, 1 Canonbury Place, Islington, N.1, beginning in Oct. Open to registered med. practitioners holding the D.P.M. or with psychiatric knowledge up to a similar standard. Further particulars and forms of appln. from the Secretary of the Council.

HENDERSON TRUST. *Henderson Research Scholarship*, £250 p.a. for 1 yr., renewable for 2nd or 3rd yr., for study and research in nervous and mental disorders. The work may be clinical, pathological, psychological, or sociological. Open to both sexes, fully qualified med. practitioners, holding a degree or other qualification of a British Univ., Coll. or School of Med., or to persons who have devoted themselves to the care of, or been specially interested in, mental defectives. Candidates must have shown capacity for original research. Applications to J. Johnston, C.A., Secretary to the Trustees, 190 West George St., Glasgow.

MANCHESTER UNIVERSITY. *Knight Fellowship* for study of the factors concerned in development of symptoms of mental disturbance. £150 offered triennially. Open to grads. of any Univ. Next offer 1939. Applns. not later than June 1.

Obstetrics and Gynæcology

MCGILL UNIVERSITY, Montreal. *The A. A. Browne Memorial Fellowship. See* Canada.

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE. *Ewen Maclean Research Scholarship* in Obstetrics and Gynæcology, £150 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

Pathology

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships. See* Science (General).

CAMBRIDGE UNIVERSITY. (i) *John Lucas Walker Studentship* in Pathological research, £300 p.a. for 3 yrs. Candidates need not be members of the Univ. Offered triennially or as casual vacancies occur.

(ii) *Pinsent-Darwin Studentship* in Mental Pathology, of about £227 for 3 yrs. Conditions as for (i) above.

THE LADY TATA MEMORIAL TRUST grants and scholarships. *See under* Science, General.

LIVERPOOL UNIVERSITY. *Garrett International Fellowship. See* Bacteriology.

LONDON UNIVERSITY. *Charles Graham Medical Research Fund.* A Scholarship in Pathology, value not exceeding £400 p.a. for 2 yrs., is awarded from time to time "to enable a young man to continue his pathological researches, and at the same time to secure his services to the School of Advanced Medical Studies connected with Univ. College Hospl. as a Teacher under the direction of the Prof. of Pathology." Applicants should give names of 3 referees, including a Teacher of the Univ. or College in which he has conducted his studies in Pathology. The Scholar is required to undertake teaching as well as research work. Applications to the Academic Registrar.

LONDON UNIV.: IMPERIAL COLLEGE. *Henry George Plimmer Fellowship* in Pathology, about £230 p.a. Tenable at a recognized instn. at home or abroad, ordinarily for 1 or 2 yrs., but may be indefinitely prolonged. Candidates must be of British nationality. Further particulars from the Registrar of the College.

OXFORD UNIVERSITY. *Philip Walker Studentship* for Research in Pathology. At present £300 p.a. for from 1 to 5 yrs., not restricted to members of the Univ., open to women as well as men and tenable for 3 yrs., and, by permission, with a Demonstratorship in the Dept of Pathology. Last award 1937.

THE ROYAL SOCIETY. *Mosley Studentship. See* Science (General).

Preventive Medicine

MANCHESTER UNIVERSITY. (i) *Sheridan Delépine Research Fellowship* in Preventive Medicine, £300 annually. Open to graduates in Med. of any approved Univ. or to med. practitioners with approved registrable qualifn. Next offer 1939. Applns. by June 1.

(ii) *Dr. Robert Angus Smith Scholarship*, £150 for 1 yr., renewable. For encouragement of research in Sanitary Science, tenable in Dept. of Bacteriology and Preventive Medicine or in Dept. of Municipal Engineering in the Fac. of Technology. Next offer 1939. Last date for applns., June 1.

Tropical Medicine and Hygiene

LONDON UNIV.: LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel Street, London, W.C.1. (i) *Wandsworth Scholarship*

for research in Trop. Med. and Hygiene £350 p.a., plus overseas allowance, for 1, 2, or 3 yrs. Preference given to a British subject.

(ii) *Tropical Diseases Research Fund.* This fund exists for the purpose of research work at home or abroad by the School, in connexion with investigation into tropical diseases. Capital £21,000; income available about £1000 p.a. Grants both of capital and income are applied to specific research in trop. diseases from time to time.

(iii) *Edward John Stanley Memorial Fund* (1909). Founded by the late Lord and Lady Sheffield. Capital £1200; the accumulated income is applied periodically, at the discretion of the Board of Management, in aid of specific pieces of research in trop. diseases.

(iv) *Avebury Memorial Fund.* Income approximately £80 p.a. for the creation of studentships or the making of grants for special research work in the subject of Entomology.

(v) *Andrew Balfour Memorial Fund.* Income approximately £40 p.a. available for the granting of two free studentships in Part II of the course of study for the Diploma in Tropical Medicine and Hygiene.

Further particulars from the Secretary of the School.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen Street, Westminster, S.W.1. *Junior Fellowships for Research in Tropical Medicine* are awarded to medical graduates for 2 yrs.' training at home and 1 yr. in the tropics; £300, £400, and £500 p.a. in successive years, with additional allowance while abroad and necessary expenses; up to 3 annually. *Senior Fellowships* are available for candidates who have held Junior Fellowships or have otherwise obtained equivalent experience; tenable for 3 yrs., mainly in the tropics; £600-£750 p.a., with additional allowance while abroad and expenses. Senior Fellows become eligible for permanent research appointments under the Council.

Tuberculosis

LIVERPOOL UNIVERSITY. For *Ridgway Research Scholarships, see under* Diseases of Children.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1. *Dorothy Temple Cross Research Fellowships,* usually £360 p.a. (£480 for married men), plus travelling expenses, tenable normally for 1 yr., are given for study of tuberculosis at approved centres abroad. Up to 5 awarded annually.

WALES, UNIV. OF: WELSH NATIONAL SCHOOL OF MEDICINE. *Cecil Prosser Research Scholarship* in Tuberculosis, £250 for 1 yr. Open to graduates of any approved Univ. or qualified med. practitioner. Applications to the University Registry, Cathays Park, Cardiff.

17. **SCIENCE** (General)

BEIT FELLOWSHIPS FOR SCIENTIFIC RESEARCH. Founded by the late Sir Otto Beit, Bart, K.C.M.G., F.R.S., in 1913 for advancement of Science by means of research. At present £240 p.a. for 2 yrs. subject to report at end of first year. Tenable at Imperial College of Sc. and Tech., London, under supervision of a Prof. Fellows are required to devote

their whole time to their research and to hold no appointment, paid or unpaid, without sanction of the Trustees. Open to men or women under 25 yrs. of age, of European descent by both parents, who have taken a degree in any Univ. in the British Empire, or Diploma or Associateship of any College approved by the Trustees. Not open to holders of any other Scholarship or Fellowship. Elections, advertised 3 mos. in advance, are made annually in July. Applications should give full information as to qualifications, previous career, general character of proposed research, whether applicant has private means sufficient to carry on the research for 2 yrs. without aid of Fellowship, names of not more than 3 referees, including one on the staff of the Univ. or College or a College of the Univ. at which the degree, etc., was obtained. Testimonials should not be sent. Capacity for research, personal record, and importance of proposed research will be taken into consideration. Inquiries may be addressed to the Rector of the Imperial College, South Kensington, London, S.W.7.

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships*, 5 of £200 each, open to British subjects, graduates of at least one year's standing in a Univ. of the British Empire, for research in *Pathology, Biology, Chemistry, Physics, Physiology*. Latest date for applications (10 copies and not more than 2 testimonials as to fitness for research)—June 1.

BIRMINGHAM UNIVERSITY. *Caroline Harrold Research Fund* (to assist research in the Faculties of Science and Medicine).

(*a*) Grants from this fund are made from time to time by the Faculty of Science to assist the Professors in their researches by the appointment of senior research workers.

(*b*) Grants may be made to registered medical practitioners (with preference for past students of the Birmingham Medical School) for research work in the Univ. or one of the associated hospitals.

Persons receiving grants either in Science or Medicine may be given the title " Caroline Harrold Research Fellow."

BRITISH FEDERATION OF UNIVERSITY WOMEN, LTD., Crosby Hall, Cheyne Walk, London, S.W.3. *Johnstone and Florence Stoney Studentship*, value £250, for research in biological, geological, meteorological or radiological science, to be carried out in Australia, New Zealand or S. Africa. Open to women graduates, or to those with equivalent of a degree, of the Univs. of Gt. Britain and Ireland born in the British Isles of British-born parentage who are members of the British or Irish Fedns. of Univ. Women (such membership is open to all women grads. or those with equivalent of degree). Candidates must be under 27 on Jan. 1 of year of award. Next award 1940–41. Further particulars and form of appln. from the Secretary.

CAMBRIDGE UNIVERSITY. *Gordon Wigan Fund*, £300 p.a., for scientific educn. or research.

CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND. *See under* General.

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH (16

Old Queen St., London, S.W.1) maintains a number of research stations, particulars of which are given in Appendix III.

The Department also makes grants to individual research workers, engaged mainly in Univs. and Colls., under the following headings: (*a*) Maintenance allowances to students to enable them to undergo training in research; (*b*) Senior Research Awards (strictly limited in number) to enable young investigators of exceptional promise and proved capacity to devote their whole time to original research; (*c*) Grants to investigators of acknowledged standing to enable them to develop lines of research of exceptional timeliness and promise.

During the academic year 1937–38 the numbers of grants made in these categories were (*a*) 139, (*b*) 10, (*c*) 56, of which 80, 4, and 38 respectively were new grants. The scheme is intended to supplement and not in any way to supersede existing provision, national or local, for post-graduate research. The grants are restricted in all cases to British subjects resident in Gt. Britain. Full particulars in the pamphlet, *Notes on Grants to Research Workers and Students*, obtainable from H.M. Stationery Office, Adastral House, Kingsway, London, W.C.2, price 2d.

Particulars of the existing Industrial Research Associations established in co-operation with the Dept. are given in Appendix III. These include the Industrial Research Council of the British Iron and Steel Federation and the Automobile Research Committee of the Institution of Automobile Engineers, which, though not having the legal status of a research association, are regarded as equivalent to research associations.

Information as to the work of the Department will be found in the Annual Report for 1937–38 (Cmd. 5927) published by H.M. Stationery Office, price 3s.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship, see under* General.

THE LADY TATA MEMORIAL TRUST. Founded by the late Sir Dorabji Tata of Bombay as a memorial to his wife, the late Lady Tata. Provision is made for the award of research scholarships, prizes, or grants. The Trustees are advised by a Scientific Advisory Committee having its headquarters in London and by an Indian Committee in India. One-fifth of the net annual income is earmarked for the encouragement of scientific research by Indians in India or abroad, and the rest is to be used to assist research on diseases of the blood, with special reference to leukaemia: the assistance may take the form of grants, scholarships, or prizes, and the awards are open to persons of any nationality. Further particulars from the Secretary of the Trust, Bombay House, Bruce Street, Fort, Bombay, or from the Secretary of the Scientific Advisory Committee, 138 Bedford Court Mansions, London, W.C.1. Candidates for the special awards to Indians should apply direct to Bombay.

LONDON UNIVERSITY. (i) *Dixon Fund for assisting Scientific Investigations.* Income available for grants—about £310. Applications receivable by the Principal (from whom further particulars can be obtained) between March 1-31. Full information required as to nature

and objects of research proposed, estimated amount required (detailed estimate to be given), any previous grant received for same object, any apparatus of permanent value needed. Names of two referees to be given. Grants are made from the fund annually by the Senate for purchase primarily of apparatus and materials of a special nature to be used in scientific investigation. Instruments and specimens of permanent value purchased out of grants to be returned to the Univ. Published results of researches must contain a reference to the Fund, and 2 copies be supplied to the Univ. Preference given to applicants who are graduates of the Univ. or who undertake to work in a Dept. or School of the Univ. or other Instn. connected therewith.

(ii) *Keddey Fletcher-Warr Studentships* for Postgraduate Research in Science to be conducted in the British Isles or other approved place. Value not less than £200 p.a. for 3 yrs., renewable. Open to men and women of European descent who are graduates of some British Univ. or have qualified for such graduation, but preference is given, other things being equal, to a graduate of London of small or no private means. Awardable from time to time as notified in the public press. Further particulars from the Academic Registrar, Univ. of London, The Senate House, W.C.1.

NOTTINGHAM UNIVERSITY COLLEGE. Three post-graduate scholarships in Pure and Applied Science up to the value of £100 each, together with a grant covering tuition fees and tenable for 1 or 2 yrs., may be awarded each year to suitable candidates. Open to graduates of any approved British Univ. Applications must be made not later than July 21.

THE ROYAL COMMISSION FOR THE EXHIBITION OF 1851 offers: (i) *Science Research Scholarships to Overseas Universities*, to enable selected students who have already completed a full University course and given sufficient evidence of capacity for scientific investigations to devote themselves for 2 yrs. to research work under conditions most likely to equip them for practical service in the scientific life of the Empire. Value, £275 p.a., with supplements in certain cases. Tenable ordinarily for 2 yrs., and in exceptional cases for 3 yrs., at any institution approved by the Commrs., but not, except in very special circumstances, in the country in which the scholar has received his scientific education; open to British subjects of age (except in very special circumstances) under 26 years. At present not less than 9 (Canada 3, Australia 2, S. Africa, N.Z., Irish Free State and India, 1 each) are offered annually; recommendations receivable (South Africa, Irish Free State, India, May 1) (Australia, N.Z., Canada, June 1) from the following Univs.: Alb., B.C., Dal., McG., Manit., Queen's (Ont.), Sask., Tor., and any of the Univs. of Australia, N.Z., S. Africa, the Irish Free State and India possessing postgraduate departments of science. A Scholar is not permitted to hold any position of emolument likely to conflict with the devotion of his whole time to the objects of the Scholarship, nor to accept any additional emoluments without the previous consent of the Commrs. Women are eligible on equal terms.

(ii) *Senior Studentships*, at present 5 in number, each of £400 p.a. with supplements in certain cases, for 2 yrs. or, in special cases, for

3 yrs.; open to British subjects not (except in very special circumstances) more than 30 yrs. of age, on recommendation, receivable up to May 1, by Profs. and Heads of Depts. through the executive authorities of such Institutions as may be invited by the Commrs. to nominate; tenable at any Institn. at home or abroad approved by the Commrs. The student is not permitted to undertake any work likely to conflict with the devotion of his whole time to the objects of the studentship, but a limited amount of time may, with the approval of the Commrs., be spent in delivering an advanced course of lectures. He is not debarred from holding another position of emolument, but in such cases the Commrs. may modify the value of the studentship. Women are eligible on equal terms.

Address of the Secy. to the Commrs., 1 Lowther Gardens, Exhibition Rd., London, S.W.7.

THE ROYAL SOCIETY, Burlington House, Piccadilly, London, W.1. (i) *Foulerton Research Fund.* (*a*) Research Professorships, with stipend £1400-£1500 p.a. *Duties*: To conduct, in a place approved by the President and Council of the R.S., such original researches in medicine or the contributory sciences, on lines approved of by the President and Council, as shall be calculated to promote the discovery of the causes of disease and the relief of human suffering. The Professors shall devote the whole of their time to research. Tenable for 5 yrs. in the first instance, the appointment being thereafter renewable for further periods of not more than 5 yrs. at a time. (*b*) Research Fellowships of £700 p.a., restricted to British subjects. *Duties*: To conduct researches in medicine or the contributory sciences, under the supervision and control of the Foulerton Research Fund Management Committee, to whom the Fellows will be required to report from time to time on the progress of their work. Tenable for 2 yrs. and renewable from year to year, with a maximal total tenure of 5 yrs. from the first award. Incumbents: (*a*) Prof. A. V. Hill; (*b*) Dr. C. S. Hallpike, Dr. Mc.G. Israëls and Dr. C. H. Stuart-Harris.

(ii) *Yarrow Research Professorships* for research (whole-time) in Math., Physical, Chemical, or Engineering Sciences. Value, £1000-£1400 p.a. Tenable at a University or other place to be approved by the President and Council of the Royal Society for a period of 5 yrs., the appointments being renewable for further successive periods of 5 yrs. Incumbents: Prof. G. I. Taylor, and Prof. O. W. Richardson.

(iii) *Mackinnon and Moseley Research Studentships.* Each of the value of £350 p.a. Tenable in the first instance for 2 yrs., but renewable in exceptional cases from year to year, total length of tenure not to exceed 5 yrs. The *Mackinnon Studentship* is for "furthering Natural and Physical Science, including Geology and Astronomy, and . . . original research and investigation in Pathology." Incumbent: Dr. G. W. Brindley. The *Moseley Studentship* is for "the furtherance of experimental research in Pathology, Physics, and Chemistry, or other branches of science, but not in Pure Mathematics, Astronomy, or any branch of science which aims merely at describing, cataloguing, or systematizing." Incumbents: Dr. H. Grüneberg, Dr. H. Wilman.

(iv) *Smithson Research Fellowship* in Natural Science. The Royal

Society hold the capital of the Fund in trust. The income is administered by a Joint Committee of the Society and the Univ. of Cambridge. The Fellowship, £800 p a. (which may rise to £850 in 3rd and 4th yr. and thereafter to not more than £900), with superannuation provision, is open normally to British subjects of either sex, including subjects of the Dominions, Colonies, and Indian Empire; but the Committee may, in special circumstances, invite a foreigner of scientific distinction to apply. Preference to candidates not over 35 yrs. of age. The holder will work in the Univ. of Camb. if appropriate laboratory accommodation is available. Appointment (from Jan. 1, 1936) for 4 yrs. in first instance, may be renewed annually up to maximum period of 8 yrs. Incumbent: Dr. E. C. Bullard.

(v) *Sorby Research Fellowship* for original Scientific research. The income, about £600, is devoted to maintaining a Fellowship tenable ordinarily in the Univ. of Sheffield for 5 yrs., renewable for further periods. No permanent duties outside the research work may be undertaken. Appointments are made by a Committee composed of 4 persons appointed by the Council of the R.S. and 3 appointed by the authorities of the Univ. of Sheffield. Incumbent: Dr. K. Mellanby.

For all the above appointments applications are invited by public advertisement.

(vi) *E. Alan Johnston and Lawrence Fellowship* (income about £500 p.a.) for increasing the knowledge of the causes of disease and conditions of healthy life. Incumbent: Dr. J. McMichael.

(vii) *Warren Fellowships* (value £700 p.a.) in Metallurgy, Engineering, Chemistry and Physics. Incumbents: Dr. G. S. Hartley and Mr. J. T. Randall.

(viii) *Scientific Relief Fund* (income about £700 p.a.) to aid scientific men or their families requiring assistance.

(ix) *Minor Funds*: Tyndall Mining Research, income about £40 p.a. for a studentship; Gunning, about £35 p.a.; Joule, about £70 p.a.

(x) *Government Grants for Scientific Investigations.* The conditions are notified annually in time for applications to be received by March 31. Only British subjects are eligible.

(xi) *Medals.* Copley, for philosophical research (any country); Rumford (biennial), for useful discovery in Light or Heat, in any part of Europe; Royal (2), for advancement of Natural Knowledge; Davy for Discovery in Chemistry in Europe or Anglo-America; Darwin (with grant of £100, biennial), for work in Darwinian field; Buchanan (with money grant, quinquennial), for service to Hygienic Science or Practice; Sylvester (with money grant, triennial), for Mathematical Research; Hughes (with money grant), for discovery in Physical Sciences, particularly Electricity and Magnetism. The last four are open to foreigners as well as to British subjects.

18. **SCIENCE** (Special Subjects)

Biochemistry

LIVERPOOL UNIVERSITY. *Johnston Colonial Fellowship* in Biochemistry, £100, tenable for 1 yr., offered annually, renewable for 2nd

and 3rd yr. Failing a candidate in Biochem., the Profs. of Pathol. and Physiol. shall be invited to nominate a candidate. Open in the first place to members of Colonial Univs. and Med. Schools (without, however, excluding Colonials who may possess British qualifications). Applications to be sent to the Dean of the Fac. of Med. not later than May 31.

LONDON UNIV.: LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Bridge Road, London, S.W.1. *The Grocers' Company Research Studentship*, in Bio-Chemistry, £250 p.a., tenable for 1 yr., with possible extension for 2nd yr. Open to British subjects. Vacancies advertised in appropriate journals.

LONDON UNIV.: UNIVERSITY COLLEGE. *Bayliss-Starling Memorial Scholarship*. *See under* Physiol. below.

Biology

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships*. *See* Science (General).

CAMBRIDGE UNIVERSITY. (i) *Balfour Studentship* in Biological research, especially in Animal Morphology, £300 p.a. for 3 yrs.; student need not be a member of the Univ., but must study in it for at least 3 terms. Offered triennially or as casual vacancies occur.

(ii) *Balfour Memorial Fund*. Grants may be made from this fund for original research in Biology, especially Animal Morphology, to the Balfour Student or to any other person engaged in such research.

Biometrics

OXFORD UNIVERSITY. *Weldon Memorial Prize* (endowment, £1000), awarded once in 3 yrs., for contribution in 6 preceding yrs. to Biometric Science. Last award 1938.

Botany

CAMBRIDGE UNIV.: GIRTON COLLEGE. *Ethel Sargant Studentship* for research in Botany, value £100. Offered annually. Usually open to women graduates of any Univ.

MANCHESTER UNIVERSITY. *Grisedale Scholarship for Biological Research*, £200 annually in either Botany or Zoology, for 1 yr., renewable for a 2nd yr. Open to persons who have studied Bot. or Zool. in Manchester Univ. or in some other approved instn. Next offer 1939. (Pref. to Zoology.) Last date for applns. June 1.

Chemical Engineering

LONDON UNIV.: UNIVERSITY COLLEGE, Gower St., London, W.C.1. *Leverhulme Studentships* in Chemical Engineering, two, value £250 each for 1 yr., renewable for 2nd yr. Candidates must be holders of a good Univ. degree with Chem. or Engin. as principal subject and must either be engaged in or be definitely preparing to enter the chem. industry and have adequate knowledge, practical or otherwise, of factory or business conditions. The holders may take the ordinary course of study for the

Coll. Dipl. in Chem. Eng. or a special course in the subject, or carry out orig. research. Applications not later than May 15 to the Registrar.

Chemistry

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships, see* Science (General).

CHEMICAL SOCIETY, Burlington House, London, W.1. The Research Fund of the Chemical Society was estabd. in 1876 to assist investigators by defraying the cost of expensive materials. The income from the Fund, incl. that from the donation of the Goldsmiths' Company and from the Perkin Memorial Fund, amounts to about £700 a yr. The Committee meets in November to consider applications for grants. The income from the Goldsmiths' donation is mainly devoted to the encouragement of research in Inorg. and Metallurgical Chemistry, and that from the Perkin Memorial Fund for investigations connected with the Coal Tar and allied industries. The grants made during 1938 amounted to £695.

DURHAM UNIV.: KING'S COLLEGE, Newcastle upon Tyne. *Johnston Chemical Studentship* (£95) *and Prize* (£5), for 1 yr., awarded on the results of an examn. in Chem. with Crystallography or Mineralogy or Biochemistry, tenable at the College, involving at least 24 hours per week throughout the session. Open to B.Sc. of any British Univ. of not more than 3 yrs.' standing from graduation. Evidence of previous training and ability to conduct an original Chem. investigation is required. Applications to Registrar.

INSTITUTE OF CHEMISTRY. *Pedler Research Scholarship* in Chemistry. *See* App. IV. 7.

MANCHESTER UNIVERSITY. *Sir Clement Royds Memorial Scholarship* in Chemistry, £200 for 1 yr., offered annually. Open to British subjects of Brit. descent born in, or inhabitants of, Lancashire, with preference to candidates born in, or inhabitants of, Rochdale. Next award 1939. Last date of appln. June 1.

QUEEN'S UNIVERSITY, Kingston, Ont. *Milton Hersey Fellowship, see* Canada.

RAMSAY MEMORIAL FELLOWSHIPS. The Trustees (Chairman, Sir Robert Waley Cohen, K.B.E.; Secy., C. O. G. Douie, University College, London, Gower St., London, W.C.1) award from time to time 3 Fellowships, value £300 a yr. for 2 yrs., for Chemical research. They can be held in any Univ. or other place in the U.K. possessed of the requisite facilities for research; also in exceptional circumstances in other parts of the British Empire, and, by special permission of the Trustees, elsewhere. One is limited to candidates nominated by the Univ. and the Royal Technical College, Glasgow. Fellowships are also provided in connexion with the following Dominion and Foreign countries: Canada, France, Greece, Holland, Japan, Spain and Switzerland. The value is normally £300 a year.

Mathematics

See Arts (Special Subjects)

Metallurgy

BIRMINGHAM UNIVERSITY. *William Gibbins Research Fellowship* in Metallurgy, £250 p.a., usually for 2 yrs. but renewable; tenable in the Dept. of Metallurgy. Candidates should be graduates who have had at least 1 yr.'s experience of post-grad. research. Established to encourage research into copper, brass, and non-ferrous alloys.

THE ROYAL SOCIETY. *Warren Fellowships. See* Science (General).

Physics

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships, see* Science (General).

BIRMINGHAM UNIVERSITY. *Nuffield Research Fellowships.* Value normally between £200 and £400 p.a., determined in each case by the Faculty of Science, tenable in the first instance for 2 yrs. but renewable. Fellows are required to devote their whole time to research in the Dept. of Physics but may be required to take such part in the work of the Dept. as will not interfere with their research. Further particulars from the Registrar.

BRISTOL UNIVERSITY. (i) *George Wills Research Associateships* (3), minimum value, £300 p.a. Open. Vacancy unlikely for several years.

(ii) *Arthur Prince Chattock Research Studentship*, minimum value, £150 p.a. Open. Date of next vacancy unknown.

Further particulars from the Secretary and Registrar.

CAMBRIDGE UNIV.: PEMBROKE COLLEGE. *Gabriel Stokes Studentship* for research in Physics, about £425 p.a. for 3 yrs., renewable for a term not exceeding 5 yrs. Open to graduates (preferably of Cambridge) of from 23 to 28 yrs. of age. Last award 1937.

MANCHESTER UNIVERSITY. *John Harling Fellowship* for research in physical science. £200 and occasionally more; renewable for 2nd and possibly 3rd yr. Open to all persons who can furnish satisfactory evidence of ability to pursue research. Next award not fixed.

Physiology

BELFAST, QUEEN'S UNIVERSITY. *Musgrave Research Studentships, see* Science (General).

LIVERPOOL UNIVERSITY. *Garrett International Fellowship, see* Bacteriology.

LONDON UNIV.: UNIVERSITY COLLEGE, Gower St., London, W.C.1. (i) *The Bayliss-Starling Memorial Scholarship* in Physiol. and/or Bio-Chemistry (founded 1929), value about £130 p.a. with exemption from tuition fees, tenable for 1 to 3 yrs. Candidates must be graduates of the Univ. of London or any other Univ. approved by the College Committee for the purpose, or undergrad. of the Univ. of London or any other approved Univ. as aforesaid of suitable standing in Sci. or Med. Applns. to the Registrar of the Coll. not later than May 15.

(ii) *Sharpey Physiological Scholarship*, value about £112 for 1 yr., renewable from yr. to yr. For the encouragement of research in Physiol. The Scholar assists in the teaching of Physiol. and/or Biochem. Further particulars from the Registrar.

MANCHESTER UNIVERSITY. *Robert Platt Scholarship* for research in Physiology, £90 for 1 yr., renewable for 2nd and possibly 3rd yr. Open to candidates between 18 and 25 on Jan. 1 in year of award, without further restrictions. Next award 1939. Applns. by June 20.

Zoology

MANCHESTER UNIVERSITY. *Grisedale Scholarship for Biological Research, see under* Botany above.

TORONTO UNIVERSITY. *The Ramsay Wright Research Scholarship, see* Canada.

ZOOLOGICAL SOCIETY, Regent's Park, London, N.W.8. The Society offers a research fellowship in Comparative Pathology, value £650 p.a., of unlimited duration, awarded in 1928 to Lt.-Col. A. E. Hamerton, C.M.G., D.S.O., late R.A.M.C. An Anatomical Research Fellowship (£400 for 5 yrs.) and an Aquarium Research Fellowship (£200 for 3 yrs.) are in abeyance.

19. THEOLOGY

CAMBRIDGE UNIVERSITY. *Hort Memorial Fund*, £65 p.a., for grants to persons engaged in Biblical, Hellenistic, or Patristic research, or undertaking connected therewith. Further information from the Managers of the Fund.

EDINBURGH UNIVERSITY. *Richard Brown Scholarship, see under* General.

LONDON UNIV.: KING'S COLLEGE, Strand, London, W.C.2. Theological Exhibitions: Six of £50 p.a. open to grads. of any Empire Univ. or members of the Faculty who have passed the Intermed. B.D. Examn. Candidates must send in their names to the Dean on or before June 20 in each year. Various other Bursaries.

NATIONAL CHURCH LEAGUE, Dean Wace House, Wine Office Court, London, E.C.4. *Grafton Scholarship*, value £65, to be awarded annually on the result of an examn. to be held usually in Sept. at Dean Wace House. Tenable at an Evangelical Theological College to be approved by the Ordination Candidates' Committee of the National Church League. Open to grads. of British (including Irish) Univs. Full particulars from the Secretary.

UNION THEOLOGICAL SEMINARY, New York City. *See* United States of America.

B. DOMINIONS

20. CANADA

THE BANTING RESEARCH FOUNDATION, Toronto, was founded in commemoration of the discovery of insulin by Sir F. G. Banting and Mr. C. H. Best. The income from the capital sum of approximately

$700,000 is available to aid in the work of the Banting and Best Department of Medical Research and also to make grants in aid of the solution of such problems of medical research as the Trustees consider should be supported. The grants may take the form of living expenses or of monies for the purchase of animals, apparatus and other materials necessary for the solution of the research. The Trustees have adopted the principle of not making grants for research which is to be carried out elsewhere than in Canada. From $14,000 to $15,000 are distributed in this way per annum to various workers usually attached to university laboratories. Joint Honorary Secretary-Treasurers: Dr. V. E. Henderson and Dr. A. W. Ham.

McGILL UNIVERSITY, Montreal. The *A. A. Browne Memorial Fellowship* (endowment, $10,000), open to graduates of any recognized medical school. Special preference given to obstetrics and gynæcology.

NATIONAL RESEARCH COUNCIL, CANADA, Ottawa. In order to develop a corps of highly trained research men for the Univs., industries, and technical depts. of Dominion and Provincial Govts., the Council awards bursaries (value $500), studentships (value $600), fellowships (value $700) and Special Scholarships (value $750 and $1000) for post-graduate training in Science. For a fellowship demonstrated ability to carry on independent research is required. *See also* Appendix III., B. 1.

The Council also makes research grants to research workers in the Univs. and other research laboratories for specific investigations. (For further information, *see Canada Yearbook*, 1932, pp. 866-70.)

QUEEN'S UNIVERSITY, Kingston, Ont. (i) Two Fellowships in Arts, $500 each, for 1 yr. Open to men and women, B.A. in Hons. at Queen's Univ. or with an equivalent degree elsewhere. One of these may be awarded as a Travelling Fellowship, otherwise tenable at the Univ.

(ii) Four Fellowships in Arts, $500 and one or two of smaller value, for 1 yr. Open under same conditions as above. Applications not later than April 1 to the Registrar.

(iii) *Milton Hersey Fellowship* and *William Neish Fellowship* for research in Chemistry, each of the value of $400 for 1 yr. Open to graduates of all Univs. and technical colleges. Applications up to May 1 to the Registrar. If no appointment made, further applications up to Sept. 2.

TORONTO, UNIVERSITY OF. (i) Two open War Memorial Fellowships, value $500 each, to be awarded to grads. of any approved Univ. in the Dominion of Canada enrolled or intending to enrol in the School of Graduate Studies for the purpose of proceeding to a degree in any dept. of the Univ. Particulars from the Secretary-Treasurer, Alumni Federation, 43 St. George St., Toronto 5. Applications to be made before March 1.

(ii) Eight Special Open Fellowships of $500, one of $250 (three with free tuition), in the School of Graduate Studies, for students proceeding to the degrees of M.A. and Ph.D. Open to graduates of any University in Canada.

(iii) *The Alexander Mackenzie Research Fellowships*, two of $500

each, for research in the depts. of Political Sci. and Hist. Open to graduates of any University.

(iv) *The McCharles Prize*, value $1000 in money, awarded from time to time for: (1) The invention or discovery of any new and improved process for the treatment of Canadian ores or minerals of any kind, after such process has been proved to be of special merit on a practical scale; or (2) for any important discovery, invention, or device that will lessen the dangers and loss of life in connexion with the use of electricity in supplying power and light; or (3) for any marked public distinction achieved in scientific research in any useful practical line. Open to any Canadian (*i.e.* any person Canadian born who has not renounced British allegiance), student or otherwise. In the case of (1) domicile in Canada is an essential condition.

(v) *The James H. Richardson Research Fellowship* in Anatomy, value $250 p.a., tenable for 1 yr., with possible renewal for not more than 2 addnl. yrs. Open to grads. in Med. of the Univ. and of such other Univs. and Med. Schools as may be approved by the Nominating Committee and to students in the Univ. who shall have completed the 3rd yr. of med. course. The holder must devote his whole time to investigation under the Prof. of Anat.

(vi) *Charles Mickle Fellowship*. Endowment ($25,000) awarded annually to that member of the medical profession who is considered by the Council of the Fac. of Med. of the Univ. to have done the most during the previous 10 yrs. to advance sound knowledge of a practical kind in medical art or science.

(vii) *The Alexander McPhedran Research Fellowship* in Clin. Med., value $1200 p.a., tenable for 1 yr., renewable. Open to grads. in Med. of the Univ. and of such other Univs. and Med. Schools as the Fac. of Med. may approve. The holder must devote his whole time to investigations under the direction of the Prof. of Med., to whom applications for nominations should be forwarded not later than May 1 of each yr.

(viii) *The Nipissing Mining Company Research Fellowship* in Mining Engin., annual value $1100. Open to grads. of any Univ.

(ix) *The Ramsay Wright Research Scholarship* in Zoology, value $600, for grad. work at the Univ. of Toronto. Open to students qualified to enrol in the Graduate School.

Travelling

THE CANADIAN FEDERATION OF UNIVERSITY WOMEN has founded a Scholarship enabling a woman graduate of a Canadian Univ. to study at a Univ. of any other country represented in the Internat. Federation. In general, preference will be given to those candidates who have completed at least 1 or 2 yrs. at graduate study and have a definite course of study or of research in view. Further information obtainable from Miss Mabel Patrick, University of Alberta, Edmonton. Appln. to be made by letter not later than Feb. 1.

IMPERIAL ORDER DAUGHTERS OF THE EMPIRE. The I.O.D.E. award postgraduate scholarships for study in Britain. The list of postgraduate students for the session 1938–39 includes 2 girls and 7 men

who come from British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, New Brunswick, Nova Scotia, Quebec and Prince Edward Island. *Address* of the Order—182 Lowther Avenue, Toronto 4. *Cables* —Iode, Toronto.

QUEEN'S UNIVERSITY, Kingston, Ont. For Travelling Fellowship, *see above*.

ROYAL SOCIETY OF CANADA FELLOWSHIPS FUND, Ottawa. Ten annual Fellowships (with possible renewal) each of the value of $1500 have been endowed for a period of 5 yrs. by the Carnegie Corporation to enable Canadian students of recognized and proven competence to prosecute investigations which promise to make important contributions to knowledge. Open on equal terms to men and women, ordinarily under 35 on Jan. 1 of year of appln. Save in exceptional circumstances, the work must be carried on at an institution outside of Canada. 1 Fellowship is open to a French, and 1 to an English, student of Lit., Hist., Anthropol., Sociol., Pol. Econ., or an allied subject, 1 in the Mathematical, Physical or Chemical Sciences, 1 in Geological Sciences, 1 in Biological Sciences; 5 distributed at discretion of the Board. A candidate should be a grad. of a Canadian Univ. or Coll., or have received an equivalent training in a Canadian instn. possessing adequate facilities in his particular subject; should, except in special cases, hold the Master's degree or its equivalent, or, preferably, have completed one or more years' work beyond that degree. Applications with all supporting papers must be in the hands of the Secretary not later than Feb. 1. Further particulars from the Secretary, P.O. Box 114, House of Commons, Ottowa, Canada.

21. AUSTRALIA

AUSTRALIAN COUNCIL FOR EDUCATIONAL RESEARCH, 145 Collins St., Melbourne, C.1. (Cable address: Aceres). The only permanent educational establishment in Australia devoted to the purely professional interests of education and embracing all States. Being quite independent of existing organizations and having no administrative functions, it is able to express impartial opinions on ednl. problems. It also acts as a clearing-house of information on ednl. developments. It has been endowed for a period of 10 yrs. by the Carnegie Corporation of New York. Since its foundation in 1929 it has given financial support totalling £15,800 to 143 investigations and has published 54 reports. It advises teachers and administrators going abroad. In addition to assisting qualified applicants who desire to make their own inquiries, the Council initiates certain investigations. The chief of these at the present time are an inquiry into the problems of secondary education and a survey of the teaching profession in Australia. Library, c. 900 vols., freely available to all teachers. Executive Officer: K. S. Cunningham, M.A., Ph.D.

AUSTRALIAN SCIENCE AND INDUSTRY ENDOWMENT FUND. Under the Science and Industry Endowment Act, 1926, the Commonwealth Government has established a capital fund, the income from which is

to be used to provide assistance (*a*) to persons engaged in scientific research, and (*b*) in the training of students in scientific research. *Secretary*, G. Lightfoot, M.A., 314 Albert Street, East Melbourne, C.2, Victoria, Australia. (Cable and Telegraphic Address: Coresearch, Melbourne.)

22. NEW ZEALAND

NEW ZEALAND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, WELLINGTON, C.1, N.Z. (Telegraphic Address: Research, Wellington). Two National Research Scholarships, tenable for one year, and of a value of £100, plus £25 for apparatus, books, etc., are awarded each year to Univ. graduates proposing to specialize in some branch of industrial research. These scholarships may be renewed for a further year.

THE ROYAL SOCIETY OF NEW ZEALAND (formerly the New Zealand Institute established in 1867), Wellington, administers several memorial funds from which awards are made at intervals for distinguished scientific work. From one, the Hutton Memorial Fund, grants for research work in natural history subjects are made. It publishes an annual volume of Transactions and Proceedings; quarterly parts available at 10s each.

NEW ZEALAND COUNCIL FOR EDUCATIONAL RESEARCH, Southern Cross Building, Brandon St., Wellington, C.1. An independent organization was founded in 1934 on a 5 yrs.' grant from the Carnegie Corporation of New York for the purpose of conducting and supporting research in education. It is one of the avenues through which applns. for Visitors' Grants pass to the Carnegie Corporation and it administers the Art Galleries and Museums Fund given by the Corporation in 1936. Director, A. E. Campbell, M.A., Dip.Ed.

23. SOUTH AFRICA

CAPE TOWN UNIVERSITY. (i) *Smartt Memorial Scholarship* for research in subjects bearing upon Agriculture. Approx. £200 p.a. for 2 yrs., but may be extended for a third year at the discretion of the Univ. Council. Tenable at the Univ. of Cape Town or at such other place in S. Africa as may be approved by the Senate. Open to candidates who possess an approved univ. degree. The next award will be made at the end of 1939 or 1940. Particulars and copies of the regns. governing the award of the scholarship may be obtained from the High Commissioner for the Union of South Africa, South Africa House, Trafalgar Square, London, W.C.2.

(ii) *Jacobus Stephanus Marais Memorial Research Fund.* A post-grad. scholarship for research in Surgery, £450 p.a. for 2 yrs., with possible renewal for 3rd yr. The scholar must be of European descent and Protestant denomination and must conduct his research work in S. Africa at, or under the direct control of, the Univ. of Cape Town. In any publication of the results of the research acknowledgment must be made of the fact that the work was carried out as Jacobus Stephanus Marais Memorial Research Scholar in the Univ. of Cape Town. First

award 1937. Next award in 1939 or 1940. Further particulars from the High Commissioner for the Union of S. Africa, address as above.

DEPARTMENT OF AGRICULTURE AND FORESTRY, Union Buildings, Pretoria. £3000 for £250 p.a., £200 p.a. and £50 p.a. scholarships in Agric., tenable overseas and locally, for grads. and undergrads. respectively. Further information obtainable from the Secretary for Agriculture and Forestry.

THE NATIONAL RESEARCH COUNCIL AND BOARD OF THE UNION OF SOUTH AFRICA. P.O. Box 7137, Johannesburg.

Government Grants in Aid of Research. These grants are intended to assist research workers of experience within the Union, and are made to defray the expenses of the investigation, exclusive of subsistence except while travelling for the purpose of research. They may also be made specifically for the purpose of assisting the publication of the results of research. The amount provided for these grants during 1938–39 is £4000.

University Research Grants and Scholarships. Since 1934 funds have been provided annually by the Union Dept. of Education for the award of University Research Grants and Scholarships. These have been administered by the Research Grant Board. Their primary object is to encourage the *training* of research workers in the Universities of the Union. 49 Scholarships and 39 Grants were awarded by the Research Grant Board during 1934, 1935–36 and 1937.

Mineral Research Scholarships. These scholarships, of which four are available annually, are of the value of £240 per annum and are tenable for one year, with the possibility of renewal. They are awarded for the purpose of research in connexion with the winning and utilization of minerals (other than coal) occurring in the Union. The scholars are required to act under the direction of the Director of the Mineral Research Laboratory, University of the Witwatersrand.

RHODES UNIVERSITY COLLEGE, Grahamstown. Two scholarships, value £200 each, open to male British subjects, grads. of a British Univ. preferably under 25, to enable them to take Diplomas in Education to qualify for teaching in S. Africa. Applns. in writing to reach the Appointments Bd. of the candidate's Univ. by July 1, 1939. Residence at the College to commence Feb. 1940. Further particulars from the Secretary, Rhodes Trust, 17 Waterloo Place, London, S.W.1.

SIR HERBERT BAKER SCHOLARSHIP in Architecture, about £400 for 1 yr. Awarded at intervals. Open to British students of Architecture under 33, who have had at least 6 yrs.' architectural training, not less than 4 of which have been spent in S. Africa. Tenable in Europe for about 12 months, the greater part at the British School at Rome. Applns. to the Trustees, c/o The Registrar, Institute of S.A. Architects, P.O. Box 7322, Johannesburg.

WITWATERSRAND, UNIVERSITY OF THE, Johannesburg. *Herbert Ainsworth Scholarship* in Modern History, £150 p.a. for 2-3 yrs. (may be increased to £250 while studying in Overseas Univ.) plus £50 for books. Open to graduates of a S. African Univ. 1 yr. at Witwatersrand, free choice thereafter. Further particulars from the Registrar.

24. INDIA

THE LADY TATA MEMORIAL TRUST grants and scholarships, *see* Science (General).

THE MAYNARD GANGA RAM PRIZE, value Rs. 3000, for a discovery, or an invention, or a new practical method tending to increase agricultural production in the Panjab on a paying basis. Some part of the discovery, invention, etc., must be the result of work done since the foundation of the prize in 1925. Open triennially to all, irrespective of caste, creed, or nationality. Govt. servants are also eligible. Applications in competition for the next award should be forwarded to the Director of Agriculture, Panjab, Lahore, from whom further particulars may be obtained. Essays and theses are not eligible for competition.

SIR MUNGALDAS NATHUBHAI SCHOLARSHIPS in Technology (2 every yr. and an additional one every 3rd yr.). Tenable in England. Rs. 2000 p.a. for 3 yrs., with possible extension. Open to Hindu graduates. Appln. to the Registrar, Univ. of Bombay.

C. MANDATED TERRITORY

25. PALESTINE

HEBREW UNIVERSITY. *Lord Plumer Fellowship* in Arabic Studies (incl. Arabic Lit. and Moslem Hist., Religion, Art, and Archæol.), value £.P. 100 for 1 yr. Open to graduates of English, European, or American Univs. Candidates should have a working knowledge of Hebrew, and must reside in Jerusalem for not less than 6 months. The Fellowship is granted from a donation made annually by the Friends of the Hebrew Univ. of Jerusalem in London. Further particulars from the Registrar.

D. FOREIGN COUNTRIES

26. BELGIUM

FONDATION GEORGE MONTEFIORE offers triennially a prize, value 18,000 francs, "au meilleur travail original présenté sur l'avancement scientifique et sur les progrès dans les applications techniques de l'électricité dans tous les domaines, à l'exclusion des ouvrages de vulgarisation ou de simple compilation." Secrétaire-archiviste de la Fondation George Montefiore à l'hôtel de l'Association, rue Saint-Gilles 31, Liége (Belgique).

27. FRANCE

BOURSES UNIVERSITAIRES. *Bourses* which have recently been of the value of 10,000 frs., plus free tuition, were established in 1931 by the French Government to be awarded annually on the nomination of Vice-Chancellors and Principals to graduates of British and Irish Universities for study or research at French Universities. The number of bourses to be awarded in 1939 will probably be 3. Further information is obtainable from the Secretary, Universities Bureau of the British Empire,

88A Gower Street, London, W.C.1, to whom nominations should be sent not later than June 30.

PRIX HOLLANDAIS, 10,000 fr., and PRIX D'AULT DU MESNIL, 1200 fr., for work in physical or prehistoric anthropology, usually awarded triennially. Last awards, Sept. 1935. Further particulars from the Secretary, Institut International d'Anthropologie, 15 rue de l'École de Médecine, Paris, VI^e^.

UNIVERSITY OF PARIS. *Bourse Curie* (Carnegie Foundation) in Radioactivity and nuclear Physics, amount variable. Tenable for 1 yr., renewable, at the Laboratoire Curie, Paris. Open to distinguished scientists of all countries. Inquiries to be addressed to Le Doyen de la Faculté des Sciences, l'Université de Paris.

28. GERMANY

DEUTSCHE AKADEMIE, Munich. *Thomas Carlyle Stipendium*, value RM. 1200, for study of German culture in any Univ. of the German Republic. Open to English and Scottish graduates of either sex (actual or intending teachers) of any English or Scottish Univ. on the nomination of Vice-Chancellors and Principals. Further information is obtainable from the Secretary, Universities Bureau of the British Empire, 88A Gower Street, London, W.C.1., to whom nominations should be sent not later than June 30.

HANSEATIC SCHOLARSHIPS. Four, each value RM. 3000, offered annually to graduates of the Univs. of the British Empire, with a preference for graduates from Great Britain, who wish to obtain a knowledge of German learning, culture and national life. Tenable at the Univs. of Hamburg or Berlin, but provision can be made for any scholar whose special work points to some other academic centre in Germany. A knowledge of German is essential. Further particulars from Prof. H. G. Fiedler, The Lane House, Norham Road, Oxford.

29. HOLLAND

ACADÉMIE DE DROIT INTERNATIONAL DE LA HAYE. A certain number of scholarships are awarded each yr. to persons attending the Académie who have written essays, reviews, or notable books on some branch of international law. Applications, accompanied by a copy of a scientific work published by the candidate, together with duly certified copies of Univ. or other diplomas, must be received by the President of the Curatorium before Mar. 31 ; they should be visaed by a professor of internat. law. Awards are made known on or about May 31. Particulars are obtainable from the Ministries of Public Edn. or profs. of internat. law in the various countries, and at the Secretariat, Peace Palace, The Hague.

VISSER INTERNATIONAL LAW PRIZES (triennial). Administered by Leiden Univ. (Legatum Visserianum). Maximum, 5000 guilders. Subject for next competition : " A critical study of the existing bilateral treaties about the force of civil judgments." Essays to reach the Dean of the Law Faculty of Leiden Univ. before March 1, 1940.

30. JUGO-SLAVIA

JUGO-SLAV GOVERNMENT SCHOLARSHIP in History, Language, and Literature of Jugo-Slavia, open to subjects of Gt. Britain. 3000 dinars a month for 2 yrs. with possible extension for another yr. Tenable in Jugo-Slavia. Next vacant in Sept. 1939. Applns. to the Director of the School of Slavonic and East European Studies, 40 Torrington Sq., London, W.C.1.

31. SWEDEN

NOBEL PRIZES, founded by Alfred Nobel (d. 1896), awarded for contributions to the common good by workers in (*a*) *Physics*, (*b*) *Chemistry*, (*c*) *Medicine or Physiology*, (*d*) *Literature*, (*e*) *the Preservation of Peace*. The prizes, worth from Kr. 115,000 to Kr. 171,750 (1932) each, are awarded for (*a*) and (*b*) by the Swedish Academy of Science, for (*c*) by the Stockholm Faculty of Medicine, for (*d*) by the Swedish Academy of Literature, and for (*e*) by a committee elected by the Norwegian Storthing. Among the categories of persons qualified to propose candidates for prize (*e*) are Univ. Professors of Political Science and Law, of History, and of Philosophy. Particulars can be obtained from Nobelstiftelsens Styrelse, Sturegatan 14, Stockholm, Sweden. Among prize-winners of past years the following have a special interest:

Physics: 1904, Lord Rayleigh; 1906, J. J. Thomson; 1907, A. A. Michelson; 1915, W. H. Bragg and W. L. Bragg; 1917, Ch. G. Barkla; 1923, R. A. Millikan; 1927, A. H. Compton and C. T. R. Wilson; 1928, O. W. Richardson; 1930, Sir Venkata Raman; 1933, P. A. M. Dirac; 1935, J. Chadwick; 1936, C. D. Anderson; 1937, C. J. Davisson and G. P. Thomson.

Chemistry: 1904, Sir Wm. Ramsay; 1908, E. Rutherford; 1914, T. W. Richards; 1921, F. Soddy; 1922, F. W. Aston; 1929, A. Harden; 1932, Irving Langmuir; 1934, H. C. Urey; 1935, M. and Mme. Joliot-Curie; 1937, W. N. Haworth.

Medicine or Physiology: 1902, Sir Ronald Ross; 1912, Alexis Carrel; 1922, A. V. Hill; 1923, F. G. Banting and J. J. R. Macleod; 1929, Sir F. Gowland Hopkins; 1932, Sir Chas S. Sherrington and E. D. Adrian; 1933, Th. Hunt Morgan; 1934, G. H. Whipple, G. R. Minot, and W. P. Murphy; 1936, Sir Henry H. Dale.

Literature: 1907, Rudyard Kipling; 1913, Rabindranath Tagore; 1923, W. B. Yeats; 1925, G. B. Shaw; 1929, Thomas Mann; 1930, Sinclair Lewis; 1932, John Galsworthy; 1936, E. O'Neill; 1938, Pearl Buck.

The Preservation of Peace: 1903, Sir W. R. Cremer; 1906, Theodore Roosevelt; 1912, Elihu Root; 1919, W. Wilson; 1925, Sir Austen Chamberlain and General Ch. G. Dawes; 1926, Aristide Briand and Gustav Stresemann; 1929, Frank B. Kellogg; 1932, Miss Jane Addams and Dr. Nicholas Murray Butler; 1933, Sir Norman Angell; 1934, Arthur Henderson; 1936, K. von Ossietsky; 1937, Viscount Cecil of Chelwood; 1938, Nansen International Office for Refugees.

32. UNITED STATES OF AMERICA

THE INSTITUTE OF INTERNATIONAL EDUCATION, 2 West 45th Street, New York City, publishes a pamphlet entitled *Fellowships and Scholarships open to Foreign Students for Study in the United States.* The 1936 edition gives a very full list of such aids to advanced study. They are classified as follows: (i) Unrestricted as to subject or nationality of holder; (ii) for study in prescribed subjects, unrestricted as to nationality, and (iii) for students from prescribed places.

In class (i) there are more than 150 Fellowships for advanced study and research offered by 26 different Universities, and varying in value from free tuition to $1500 a year. A number of Colleges and Universities (7) also offer student assistantships in various subjects open to qualified students of foreign birth. In class (ii.) there are several hundred Fellowships principally for research offered by the chief Universities and other learned bodies. In class (iii.) Fellowships for Research are offered to *Canadian* students by the American Library Association, the National Research Council, the Social Science Research Council, the Canadian Federation of Univ. Women, and the Pacific Coast Gas Assn. Fellowships for advanced study and research are offered to students in *Great Britain* by the American Association of Univ. Women, the Commonwealth Fund and the Rockefeller Foundation, as well as several of the large Univs. The list from which the above information is taken may be consulted at the Universities Bureau or at the American University Union, 1 Gordon Square, London, W.C.1.

Practically all the larger American Univs. offer scholarships and fellowships of $200 to $1000, which are open to foreign students in competition with American students for work of a graduate character. Most American Univs. close their scholarship lists about March 1. Bulletin of the Nat. Research Council, Washington, D.C., No. 94, 1934, price $1, contains a list of fellowships and scholarships for advanced work in Science and Technology. The principal foundations offering Fellowships to British subjects for which application can be made in England are briefly described below.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN, 1634 I Street, Washington, D.C., offers annually an International Fellowship, value $1500, to enable a graduate to carry on 1 yr.'s research in some country other than her own. Open to members of any one of the 34 Nat. Fedns. belonging to the Intern. Fedn. of Univ. Women. Further information from the Secy., British Federation of University Women, Ltd., Crosby Hall, Cheyne Walk, S.W.3; or from the above. Applns. from British grads. must reach the office of the B.F.U.W. in October of the previous year.

CHOATE MEMORIAL FELLOWSHIP, $2300. Awarded on nomination and recommendation of the Vice-Chancellor of Cambridge to a British subject coming from Camb. to study in any dept. of Harvard Univ. Failing a candidate from Camb. the Vice-Chancellor may select and appoint a candidate from any other Univ. in the U.K. Holder, 1938, T. C. Thomas, B.A., LL.B. Trin. Hall.

COMMONWEALTH FUND FELLOWSHIPS, established 1925. Twenty-six awarded annually. Value about $3000 each p.a, tenable for 2 yrs. in one of the 27 institutions belonging to the Association of American Universities (*see* list in Appendix VIII.). Candidates (who must be unmarried men and not over 30 years of age) are nominated by universities in Great Britain and Northern Ireland, and the final selections made by a Committee of Award, of which Sir Walter H. Moberly is Chairman. Among other conditions of tenure is a requirement that 3 months must be spent in travel in the U.S.A. at the close of the first year of study. Address of Committee—35 Portman Square, London, W.1.

FLETCHER SCHOOL OF LAW AND DIPLOMACY, Medford, Mass. Two *Fletcher Fellowships*, value $1000, are awarded annually for advanced study in the field of International Affairs. A limited number of other fellowships and assistantships, value $400-$1000, are also awarded. Applications (on prescribed forms) to the Dean before March 1.

HENRY FUND. Four Henry Fellowships are offered annually for study, social intercourse, and travel, value £500 each for 1 yr., tenable at Harvard or Yale Univ. Candidates must be unmarried British subjects, not over 25 yrs. on Jan. 1 (the date of appln.), men or women, who are either grads. of a Univ. of England, Scotland, Wales, or Ireland, or of a British Dominion Univ. studying at the time of appln. at a Univ. in the British Isles, or undergraduates of a British Univ. intending to graduate in the year of appointment. Further particulars and appln. forms can be obtained from the Hon. Sec., Henry Fund, c/o University Chest Office, Oxford.

ROSE SIDGWICK MEMORIAL FELLOWSHIP. Established by Americans in memory of a member of the British Educational Mission which visited the U.S.A. in 1918, in recognition of her service in the cause of Anglo-American friendship. Administered by the American Assocn. of University Women. Value $2000 (providing tuition and residence during term for 1 yr., and about $400 in cash towards travelling expenses and incidental fees); tenable at any approved College or Univ. in the U.S.A. Open to women graduates who should be not more than 35 years of age and who are natives of Gt. Britain. Awarded biennially. Next award for 1940–41. Applns. by Jan. 1. Particulars from Secy., British Federation of Univ. Women, Ltd., Crosby Hall, Cheyne Walk, London, S.W.3.

UNION THEOLOGICAL SEMINARY, Broadway and 120th Street, N.Y. City. *The Mills Fellowship* in Theology, $1000 for 1 yr., and the *Hugh Black, Jarvie and Sewickley Fellowships* in Theology, $1200 each for 1 yr., for advanced postgraduate work. The Mills Fellowship open to theol. students of high grade, graduates of the English and Welsh Univs., the remainder to graduates of Scottish Univs. of similar standing. Applications for the Mills Fellowships to Dr. W. B. Selbie, 174 Banbury Rd., Oxford, for the remaining three to Prof. G. S. Duncan, St. Mary's College, St. Andrews.

III

CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

A. IN GREAT BRITAIN

CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

I. Botany and Agriculture.
 (*a*) Soils and Crops (England and Wales).
 (Scotland).
 (Northern Ireland).
 (*b*) Horticulture.
 (*c*) Animal Pathology (England and Wales).
 (Scotland).
 (Northern Ireland).
 (*d*) Animal Husbandry incl. Animal Breeding (England and Wales).
 (Scotland).
 (Northern Ireland).
 (*e*) Agricultural Economics.
 (*f*) Food Preservation and Transport.
 (*g*) Agricultural Engineering.
II. Forestry.
III. Fisheries and Preservation of Fish.
IV. Tides and Meteorology.
V. Industrial.
VI. Pure Science.
VII. Medical.

B. IN THE DOMINIONS, COLONIES, DEPENDENCIES AND MANDATED TERRITORY AND SHANGHAI

CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

1. Canada.
2. Australia.
3. New Zealand.
4. South Africa.
5. India.
6. Bermuda.
7. Burma.
8. Ceylon.

9. Malaya.
10. Newfoundland.
11. Sudan.
12. West Indies—Trinidad.
13. East Africa—Nyasaland; Tanganyika (Mandated) Territory.
14. Shanghai.

A. IN GREAT BRITAIN

Centres of Scientific Research and Information

See also separate Universities

I. Botany and Agriculture.

Some description is given under this head of the principal centres in the U.K. for advanced study and research in Agricultural Science and the cognate pure sciences, but much fuller information will be found in a brochure published by the Ministry of Agriculture and Fisheries at the instance of the Imperial Agricultural Research Conference, 1927, entitled *Facilities for Advanced Study and Research in Agricultural Science and Cognate Pure Sciences in the United Kingdom.* 1929. Price 1s. net Post free.

The Imperial Agricultural Bureaux mentioned under (a) 5, 7, 8, (b) 2, (c) 4, 6 and (d) 6, 8 were instituted in 1929 as the result of the Imperial Agricultural Research Conference held in London in 1927. They are maintained from a fund provided by contributions from the Governments of the Empire, and are controlled by an Executive Council appointed by those Govts. *Address*: 2 Queen Anne's Gate Buildings, London, S.W.1. The Bureaux do not undertake research; they assist research workers in the Empire by acting as clearing-houses of information and by arranging meetings. *See also* (d) 3.

(a) *Soils and Crops (England and Wales)*

1. Royal Botanic Gardens, Kew, afford to botanists, especially from the Colonies, facilities for carrying out scientific investigations in the Library, Herbarium, Economic Museums, and the Jodrell Laboratory. The principal work carried out is systematic and economic botany within the British Empire. Plants of economic importance are grown in the gardens and sent out to various parts of the Empire. Information is also supplied on botanical matters to all parts of the Empire. Research work is carried out on matters relating to Economic, Systematic, and Phytogeographical Botany and also in Mycology. Botanists should apply to the Director (Sir Arthur W. Hill, K.C.M.G., M.A., Sc.D., D.Sc., F.R.S.) for permission to work at Kew.

2. Imperial Institute of Entomology. Head Office at—British Museum (Natural History), Cromwell Road, London, S.W.7. Director: Sir Guy A. K. Marshall, C.M.G., D.Sc., F.R.S. An information and identification bureau to assist economic entomologists throughout the

Empire. The Institute has now been recognized as the international centre for the accumulation and correlation of all information regarding the movements and breeding of locusts in Africa and Western Asia, and it issues periodical summaries of this information to all the Governments concerned. The Director of the Institute is also in charge of the field investigations being carried out under the authority of the Committee on Locust Control appointed by the Economic Advisory Council. The publications include the *Review of Applied Entomology*, Series "A" (Agricultural) and Series "B" (Medical and Veterinary); the *Bulletin of Entomological Research*; and the *Zoological Record*, part "Insecta." A large lending library is available at the Publication Office, 41 Queen's Gate, London, S.W.1 (Dr. S. A. Neave, O.B.E.). Parasite Laboratory: Farnham House, Farnham Royal, Bucks (Dr. W. R. Thompson, F.R.S.).

3. IMPERIAL MYCOLOGICAL INSTITUTE, Ferry Lane, Kew, Surrey. Director: S. F. Ashby, B.Sc. Mycologists from overseas are admitted to its laboratories to the extent to which space is available. A large lending library of pamphlets is maintained. *Review of Applied Mycology*, published by the Institute monthly, contains detailed abstracts in English of all work published in any part of the world.

4. THE NATIONAL INSTITUTE OF AGRICULTURAL BOTANY, Huntingdon Road, Cambridge, was established in 1919 to improve the yield and quality of farm crops by discovering and encouraging the use of better varieties and better seeds. The three main branches of the work are (*a*) Crop Improvement Branch, responsible for the organization of field trials of farm crops at six sub-stations in England, and other trials in collaboration with County Agricultural Organizers, and the dissemination of the results of these trials to farmers, the distribution of seed of improved varieties, and work in connexion with cereal synonyms; (*b*) Potato Testing Station, Ormskirk, where the official trials of potatoes for immunity from wart disease, virus disease investigations, and general potato trials are conducted; (*c*) Official Seed Testing Station for England and Wales, Cambridge, which makes laboratory tests of the purity and germination of seed samples, and undertakes research work on seed problems. A course and examn. in seed testing is usually held during the summer of every third year (fee £6 : 6s.). In approved cases facilities would be given for postgraduate research.

Detailed reports of the work done in these three branches are published in the Institute's Journal (issued annually), and results are summarized in the Annual Report. In addition a series of Farmers' Leaflets conveys to farmers the recommendations made by the Institute; these are based on the results of the trials.

There is a Fellowship scheme which enables those interested to support the work of the Institute and to assist in its organization. Annual meetings of Fellows are held for discussion, etc.

Director, M. A. Bailey, M.C., M.A. Inquiries to be addressed to the Secretary.

5. THE ROTHAMSTED EXPERIMENTAL STATION, Harpenden, Herts., founded in 1843, is controlled by the Lawes Agricultural Trust (Endowment Fund, £100,000), with which the Incorporated Society for

Extending the Rothamsted Experiments (founded 1904) co-operates. Annual grants are received from the Ministry of Agriculture, which also gives capital funds for approved purposes. The Station is organized into the following 10 depts.: Bacteriol., Bot., Chem., Fermentation, General Micro-Biol., Insecticides and Fungicides, Physics, Plant Pathol. (mycology), Plant Pathol. (entomology), Statistics. The station owns an area of over 500 acres of land for the purpose of farm and experimental fields, and a library of 25,000 vols.

Subject to certain conditions, the Station receives postgraduate students, scholarship holders, and others on leave from agricultural depts. overseas, some of whom work for higher research degrees in agric. or pure science. No fees are charged to voluntary workers for the supervision of their work, but a charge will be made for the supply of apparatus, chemicals, etc.

Director, Sir E. John Russell, D.Sc., F.R.S. All inquiries in the first instance should be addressed to the Secretary.

The WOBURN EXPERIMENTAL STATION now forms part of the Rothamsted organization; it consists of 138 acres of land, mainly light soil, Laboratory, Pot Culture, and Meteorological Stations.

The IMPERIAL BUREAU OF SOIL SCIENCE set up as a central clearing-house of information on soil problems throughout the Empire is housed at Rothamsted. Publication: List of publications relating to Soils and Fertilizers (monthly).

6. RESEARCH INSTITUTE OF PLANT PHYSIOLOGY, Imperial College of Science and Technology, South Kensington, London, S.W.7. The work of the Institute is mainly directed to the elucidation of the plant physiological processes underlying crop yield in the field and in glass houses. It works in close association with the Research Institutes at Rothamsted, Cheshunt, and East Malling. It is available for research in general plant physiology, chemical physiology, and the physiology of fungi. The laboratories are well equipped on the chemical and electrical sides and also for experiments on the growth of plants under artificial light and controlled temperatures. Requests for admission, together with a full account of academic qualifications and training, should be sent to the Director (Prof. V. H. Blackman, M.A., Sc.D, F.R.S.).

For names of staff, v. p. 170.

7. PLANT BREEDING INSTITUTE, School of Agriculture, Cambridge. The main work of the Institute is connected with the problems of breeding improved types of the plants cultivated as farm crops in this country. Most progress has been made with cereal crops, but preliminary work on improving many other crops is being carried out, including brassicæ and the leguminous fodder crops. Work on virus diseases is carried out in a special station under the direction of Dr. R. N. Salaman. There are facilities for research work in plant breeding, genetics and cytology. The experiment grounds are equipped with bird-proof cages for the protection of the more important hybrid cereals, with greenhouses, storage rooms, and a small machine room.

The IMPERIAL BUREAU OF PLANT GENETICS, for crops other than

herbage plants, has been established at the School of Agriculture for the collection and dissemination of information on this subject throughout the Empire. Publication: *Plant Breeding Abstracts* (quarterly).

Inquiries to be addressed to the Director of the Inst. (H. Hunter, M.A., D.Sc.).

8. WELSH PLANT BREEDING STATION, University College, Aberystwyth. This Station conducts researches related to plant breeding especially for farmers in high rainfall districts, at high elevations, and generally under conditions of low fertility. Chief attention is therefore given to herbage plants, with a view to producing high yielding, persistent, and leafy strains of certain grasses and clovers. Oats is the only ordinary arable crop receiving serious attention. The station is well equipped for research in the foregoing directions. There is a 2 yrs.' course for graduates studying for the Ph.D. degree. Members of staffs of research or teaching institutions and of the Govt. Departments of Agriculture are admitted for shorter periods. Applications should be addressed to the Director (Sir R. G. Stapledon, C.B.E., M.A.), Agricultural Buildings, Alexandra Road, Aberystwyth, as long as possible in advance of proposed entry.

The IMPERIAL BUREAU OF PASTURE AND FORAGE CROPS set up for the collection and dissemination of information on herbage plants throughout the Empire is housed at the Station. The Bureau issues *Herbage Abstracts, Reviews*, and *Bulletins*.

Besides the Agricultural Depts. of the Univs. in Gt. Britain and N. Ireland, and agricultural colls. which are constituent parts of Universities, such as the South-Eastern Agricultural College, Wye (Univ. of London), the following independent colls. undertake research work.

9. HARPER ADAMS AGRICULTURAL COLLEGE. Newport, Shropshire, provides facilities for research workers in Agriculture, or in Chemistry, Mycology, Entomology, Veterinary Science, Dairy Bacteriology or Economics in their application to Agriculture. THE NATIONAL INSTITUTE OF POULTRY HUSBANDRY is located at the College, and provides extensive facilities for poultry research. Reports are published in the form of separate bulletins as well as in journals, such as the *Journal of Agricultural Science, Biochemical Journal*, and *Annals of Applied Biology*. Inquiries to be addressed to the Principal (Charles Crowther, M.A., Ph.D.).

10. MIDLAND AGRICULTURAL COLLEGE, Sutton Bonington, Loughborough, Leicestershire. Visitors admitted for research work in the Chemistry or Bacteriological Laboratories, or in dairying or costings, at 63s. per week, including board and lodging. Reports on experiments and small matters of research are issued from time to time. Prospectus free; apply to the Principal (H. G. Robinson, M.Sc.).

11. SEALE-HAYNE AGRICULTURAL COLLEGE, Newton Abbot, Devon. On the College Estate of 339 acres, a farm of 315 acres is maintained. Research work is being carried out in connexion with insect and fungus pests, soil problems, plant breeding work with broccoli, economic

investigations, dairy bacteriology and certain specific animal diseases, such as poultry diseases, various deficiency diseases of sheep and cattle, and mammitis of sheep. The college farm specializes in the production of Certified milk. Experts from overseas proposing to visit the College will be welcome, and arrangements can be made for them to work there temporarily. Results of experiments are published in the *Seale-Hayne Annual* and from time to time in pamphlets. Inquiries to be addressed to " The Principal " (W. Henderson Hogg).

Soils and Crops (Scotland)

Persons wishing to avail themselves of the resources of any of the following centres (*a*) 12-17, (*c*) 7, (*d*) 6-8, should communicate with the Department of Agriculture for Scotland, 29 St. Andrew Square, Edinburgh, 2, for suggestions and advice.

12. MACAULAY INSTITUTE FOR SOIL RESEARCH, Craigiebuckler, Aberdeen. The Institute, which was established through the generosity of Mr. T. B. Macaulay of Montreal, consists of laboratories and experimental grounds at Craigiebuckler, Aberdeen, and an experimental farm on peat land at Arnish Moor, Island of Lewis. It is the national soil research station for Scotland, and is under the management of a Joint Committee nominated by the three Scottish Agricultural Colleges, the University of Aberdeen, and the Department of Agriculture for Scotland. The main lines of work at the Institute are: Soil classification and surveys; advisory work; soil fertility investigations; the study of the poorer classes of soil, including peatland, of forest soils, of soil drainage; special investigations. Work carried out at the Institute under the supervision of the Director qualifies for the degrees of Ph.D. and D.Sc. at Aberdeen Univ. Facilities for research are offered and applicants are invited to communicate with the Director.

13. THE SCOTTISH SOCIETY FOR RESEARCH IN PLANT BREEDING (Station at Corstorphine, Edinburgh, 12) was established to promote the discovery and the creation of improved races of crop plants adapted to Scottish conditions. Applications from voluntary workers to the Director of Research will receive consideration.

14. SEED TESTING AND PLANT REGISTRATION STATION AND PLANT PATHOLOGY SERVICE (Dept. of Agriculture for Scotland), East Craigs, Craigs Road, Corstorphine, Edinburgh, 12. This is the official Seed Testing Station for Scotland. In addition tests are carried out of varieties of agricultural plants, particularly potatoes and cereals, with a view to the official registration of new improved varieties. The Plant Pathology Service is provided for the investigation of, and research into, various diseases of plants. Overseas students desiring further information should apply to the Secretary of the Dept. of Agriculture, 29 St. Andrew Square, Edinburgh, 2.

15. EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE, 13 George Square, Edinburgh, 8. Facilities are provided for post-graduate research work in soil science, agricultural bacteriology, and agricultural botany. Experimental Farm. Workers possessing the

requisite qualifications may be entered for the Ph.D. degree of Edinburgh University. For staff, *see* p. 376.

16. NORTH OF SCOTLAND COLLEGE OF AGRICULTURE, 41½ Union St., Aberdeen. Experiments on farm crops on the college farm at Craibstone, near Aberdeen ; research work in entomology, grassland management, sheep pests and agricultural economics : results of experiments and research published in bulletins. For staff, *see* p. 362.

17. THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, 6 Blythswood Square, Glasgow, C.2 Applications by experts in the service of the Government, Universities and Colleges, and from agriculturists and others interested in agriculture and its allied branches in the British Empire overseas for permission to visit the College or for copies of bulletins will receive attention. For staff, *see* p. 389.

Soils and Crops (Northern Ireland)

Persons wishing to avail themselves of the resources of any of the following centres, (*a*) 18-20, (*c*) 8, (*d*) 9-12, should communicate with the Ministry of Agriculture for Northern Ireland, Stormont, Belfast, for suggestions and advice.

18. CHEMICAL [AND ANIMAL NUTRITION] DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. Research work falls into two main sections : (i) Animal Nutrition (*see* (d) 9 below) ; (ii) Soil and fertilization problems. There is an Agricultural Research Station for crops and stock with a farm of 500 acres at Hillsborough, Co. Down.

19. PLANT BREEDING RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Strandtown, nr. Belfast. The Division is concerned with the production of improved varieties of the agricultural crops of N. Ireland. Hitherto most time has been devoted to oats and flax.

20. SEED-TESTING AND PLANT DISEASE DIVISION (Ministry of Agriculture, N. Ireland), The Queen's University, Belfast. The chief investigations of the Seed-Testing Division relate to the problems concerned with seeds mixtures, grass land management and improvement, strain in grasses, and weeds. The Plant Disease Division is chiefly occupied upon investigation of the diseases and pests of oats, potatoes, flax, fruit and vegetables.

(b) *Horticulture*

1. LONG ASHTON FRUIT RESEARCH STATION (Univ. of Bristol), Long Ashton, nr. Bristol. The work of the Station is the investigation of problems relating to (i) fruit culture ; (ii) diseases of horticultural crops, especially fruit crops ; (iii) fruit preservation and products, incl. cider-making and the storage of fruits ; (iv) willow cultivation and the utilization of osiers. The Station is also an advisory centre on these subjects. Adjoining the Station is a farm of c. 257 acres, about one-half of which is suitable for experimental work. At the

associated CAMPDEN RESEARCH STATION, Chipping Campden, Glos., the main research is the investigation of problems relating to the commercial canning of fruits and vegetables. Intending workers at the Long Ashton Station should apply to the Director (Prof. B. T. P. Barker, M.A.), Long Ashton Research Station, nr. Bristol, and at the Campden Station, to the Director (F. Hirst, M.Sc.) of the latter Station, stating subject of work proposed and probable length of study.

2. EAST MALLING RESEARCH STATION, Kent. (The Kent Incorporated Society for Promoting Experiments in Horticulture.) Research work is being carried out in pomology, hop culture, plant pathology, physiology, bio-chemistry, entomology, insecticides and fungicides, and statistics. Besides issuing an Annual Report, the Institute publishes most of the results of its investigations in the quarterly *Journal of Pomology and Horticultural Science*. From time to time facilities are offered to graduate students for gaining experience in research in these problems, both in the field and laboratories. The Research Station is accepted by the Univ. of London as an instn. at which teachers may be recognized for the instruction of students pursuing courses of advanced study and research. Applications, with full details of qualifications and subjects of study proposed, to be addressed to the Director (R. G. Hatton, C.B.E., M.A., D.Sc.).

The IMPERIAL BUREAU OF HORTICULTURE AND PLANTATION CROPS (formerly the Imperial Bureau of Fruit Production) is housed at the Station and collects and disseminates information on these subjects throughout the Empire. A quarterly journal, *Horticultural Abstracts*, is issued dealing with deciduous, tropical and sub-tropical fruit and other perennial crops.

3. HORTICULTURAL RESEARCH STATION (Camb. Univ.), University Farm, Huntingdon Road, Cambridge. The Director of the Station (D. Boyes, M.A.) is assisted by an Advisory Committee which includes members of the National Farmers' Union. The work of the Station is mainly concerned with the breeding of improved varieties of vegetables and with the pathology and chemistry of the more important vegetable crops. In addition, investigations are being carried out on the manuring of vegetables.

4. JOHN INNES HORTICULTURAL INSTITUTION, Mostyn Road, Merton, London, S.W.19, is engaged in research in plant genetics, cytology, pomology and biochemistry. It affords exceptional opportunities for the study of fundamental problems in cytology. The study of the laws of inheritance in various horticultural plants, particularly fruit, receives special attention. Postgraduate short course every 2 yrs. Qualified persons desirous of conducting work coming within the scope of the Institution are given facilities. Biological and chemical labs., experimental gardens and greenhouses. *Director*, Sir Daniel Hall, K.C.B., M.A., LL.D., D.Sc., F.R.S. (to 30 9.39). C. D. Darlington, D.Sc. Lond. (from 1.10.39).

5. EXPERIMENTAL AND RESEARCH STATION, Turner's Hill, Cheshunt, Herts. In the centre of the Lea Valley Glasshouse district. The aim

of the Station is to investigate the many problems connected with the commercial cultivation of glasshouse crops. Advisory work is an important feature. Research workers are admitted to the laboratories for short periods when space is available. Reports are widely circulated. All inquiries should be addressed to the Director (W. F. Bewley, C.B.E., D.Sc.).

6. HORTICULTURAL COLLEGE FOR WOMEN, Swanley, Kent, conducts investigations into insect pests and fungus diseases of cultivated garden plants. Students on leave from other countries are welcome. Inquiries to be addressed to the Principal (Miss K. Barratt, C.B.E., D.Sc., A.R.C.S.).

7. THE BOARD OF GREENKEEPING RESEARCH, St. Ives Research Station, Bingley, Yorkshire. Founded in 1929 by the British Golf Unions' Joint Advisory Council and supported by voluntary subscriptions from Clubs in membership of the Unions and by limited support from other sports such as Bowls, Croquet, Lawn Tennis, etc. Investigations are being carried out on turf grasses from all aspects, with particular reference to the bents and fescues which make the best type of turf for fine lawns, for golf, etc. Experiment grounds, 20 acres. Extensive advisory bureau for use of supporting clubs. Permanent exhibition of implements available to visitors. A limited number of voluntary workers admitted at any time during the year, to whom laboratory facilities are available. Application to be made to the Director (R. B. Dawson, M.Sc., F.L.S.). Publications: Annual Report; *Journal* (half-yearly), 3s. 9d. post free per copy; occasional pamphlets.

(c) *Animal Pathology (England and Wales)*

1. THE BROWN ANIMAL SANATORY INSTITUTION, 149 Wandsworth Road, London, S.W.8. *See* p. 164.

2. RESEARCH INSTITUTE IN ANIMAL PATHOLOGY (Royal Veterinary College, London), Great College St., Camden Town, N.W.1. The aim of the Institute is to extend knowledge regarding the diseases of farm animals. The principal work undertaken hitherto has been concerned with contagious abortion in cows and mares, joint-ill in foals, Johne's disease, mastitis in cows, parasitic gastritis in ruminants, anærobic disease of sheep, the infectious diseases of young calves. The work is organized in three divisions: Pathology (Morbid Anatomy), Bacteriology and Parasitology. Inquiries to be addressed to the Director (F. C. Minett, M.B.E., D.Sc., M.R.C.V.S.).

3. INSTITUTE OF ANIMAL PATHOLOGY (Camb. Univ.), Cambridge. It has laboratories and a field station in Milton Road, Cambridge. The Institute is working almost entirely on the diseases of farm animals. Special attention has been given to a variety of sheep diseases. Arrangements are made for courses of advanced study and research for Colonial veterinary officers and others who may desire them. Provision is also made for visitors to carry out specific investigations. *Director*—Prof. T. Dalling, M.R.C.V.S. Applns. should be addressed to the Secretary, School of Agriculture, Cambridge.

4. VETERINARY LABORATORY (Ministry of Agriculture and Fisheries), New Haw, Weybridge, Surrey. This Institution is now divided into two sides—a routine side, dealing with questions of diagnosis and the preparation or testing of certain biological products, and a research side which includes sections of bacteriology, pathology, parasitology, biochemistry, and poultry disease. The laboratory has excellent facilities for experimental work on the larger farm animals and on poultry. A limited number of postgraduate workers can be received.

THE IMPERIAL BUREAU OF ANIMAL HEALTH set up for the collection and dissemination of information on this subject throughout the Empire is housed in this institution. The Bureau publishes monthly a Journal of abstracts, the *Veterinary Bulletin*, and half-yearly a full index of current literature relating to animal disease, *Index Veterinarius*.

The Foot-and-Mouth Disease Station, limited to experiments on that disease and providing accommodation for work with both small and large animals, is at Pirbright, some 10 miles from New Haw.

Director of the combined institutions (to whom communications should be addressed), W. Horner Andrews, D.Sc., M.R.C.V.S.

5. THE MOLTENO INSTITUTE OF BIOLOGY AND PARASITOLOGY, Downing St., Cambridge. *Telegrams*—Cambridge, 4577. This Institute was founded by Mr. and Mrs. Percy A. Molteno for the advancement of knowledge of parasitology in all its branches. Opened in 1921. There are 16 research rooms, a museum, special library, photographic room, accommodation for smaller animals, etc., and, if required, facilities for work on parasitic affections of larger animals may be obtained at the Univ. Field Laboratories. It is also well provided with apparatus and appliances for research upon general biology, chemotherapy, and the biology and morphology of parasites. The extensive collections of parasites (Vermes, Insecta, Acarina, Protozoa, Fungi) are accessible for study, the most notable being the Nuttall collection of Ticks, which, besides being rich in types, is one of the largest existing.

The scope of the work carried on is broadly biological, extending beyond the limitations set by professional schools, either medical or veterinary, in zoological and botanical laboratories, or in conjunction with agriculture and fisheries. Purely scientific as well as practical problems are dealt with.

Research workers, including those coming from the outside, may be admitted on application to the Director of the Institute (D. Keilin, M.A., Sc.D., F.R.S., Quick Prof. of Biology). The ordinary fee for research students is five gs. a term and two and a half gs. during six weeks of the Long Vacation (total, £18 : 7 : 6 p.a.).

6. INSTITUTE OF AGRICULTURAL PARASITOLOGY (London School of Hygiene and Tropical Medicine), Winches Farm, Hatfield Road, St. Albans, Herts. The Institute specializes in the morphology, life histories, and bionomics of the internal parasites of domesticated animals, farm stock, poultry, and fur animals, and of the allied eel-worms which infest plants of economic importance. Facilities for advanced study and research are available for workers in associated depts. of the London School of Hyg. and Trop. Med. *Director*, R. T. Leiper, D.Sc., M.D.,

F.R.S. Applications for detailed information should be made to the Secretary, London School of Hyg. and Trop. Med., Keppel Street, London, W.C.1.

The IMPERIAL BUREAU OF AGRICULTURAL PARASITOLOGY set up for the collection and dissemination of information on this subject throughout the Empire is housed at the Institute.

Animal Pathology (Scotland)

7. ANIMAL DISEASES RESEARCH ASSOCIATION, Moredun Institute, Gilmerton, Midlothian. The biochemistry laboratories formerly situated in the Royal (Dick) Veterinary College, Edinburgh, have now been transferred to the Institute, which has recently been extended. Research has been principally directed to the diseases of sheep. Investigations are also in progress on grass sickness in horses, contagious bovine abortion, lactation tetany in cows and white scour in calves. Visiting workers are expected to defray the cost involved in any special work.

Animal Pathology (Northern Ireland)

8. VETERINARY RESEARCH DIVISION (Ministry of Agriculture, N. Ireland), Stormont, Belfast. Research is carried on into abortion and sterility in cattle, anti-tuberculosis vaccination, pneumonia in pigs, and diseases of poultry and sheep.

(d) *Animal Husbandry, including Animal Breeding (England and Wales)*

1. ANIMAL NUTRITION RESEARCH INSTITUTE (Camb. Univ.), School of Agriculture, Downing Street, Cambridge. Field work is carried out at the Animal Research Station on the University Farm, Huntingdon Road. The work of the Institute falls under two main heads : (i.) nutrition proper ; (ii.) the physiology of reproduction and growth. Members of the staffs of teaching institutions or of Govt. Depts. of Agriculture are admitted for short courses. The full course covers two or three yrs. Applications should be directed to the Secretary, School of Agriculture, Cambridge, as long as possible before proposed arrival.

2. NATIONAL INSTITUTE OF POULTRY HUSBANDRY (Harper Adams Agricultural College, Newport, Shropshire). *See* (a) 9 above. The Institute carries out large-scale experimental work on the breeding, feeding, management and housing of poultry and other small live stock. Inquiries to be addressed to the Principal of the College.

3. NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING (Univ. of Reading), Shinfield, near Reading, was established in 1912. It is concerned on the one hand with the fundamental problems of bovine nutrition, of the breeding of dairy cattle, of lactation and of the chemistry and micro-biology of milk and milk products, and on the other with the more immediate problems of the dairy industry, agricultural, physiological, chemical, bacteriological and mechanical, arising during the production, handling and distribution of milk, and during the

manufacture of dairy products. The work is organized in four main departments: (*a*) dairy husbandry; (*b*) dairy bacteriology; (*c*) dairy chemistry; (*d*) physiology and biochemistry. In addition to laboratories and the Stenhouse Williams Memorial Library (opened 1934), the Institute possesses an experimental farm and a dairy in close proximity to the laboratories. No. of research staff, 33. A limited number of post-graduate workers can be received for a 2 or 3 yrs.' course of advanced study and research leading to higher degrees of the Univ. of Reading, etc. Voluntary workers may be admitted for shorter periods. Applications for admission should be addressed to the Director of the Institute (Prof. H. D. Kay, O.B.E., Ph.D., D.Sc.).

The IMPERIAL BUREAU OF DAIRY SCIENCE which is stationed at the Institute was established as a result of a recommendation of the British Commonwealth Scientific Conference which met in London in 1936. It is financed in cooperation by the Governments of the British Empire in the same way as the other Imperial Agricultural Bureaux. Among its functions are the collection and indexing of information bearing on Dairy Science and the establishment of contacts between research workers with common interests.

4. SMALL ANIMAL BREEDING RESEARCH INSTITUTE (Camb. Univ.), Storey's Way, Cambridge. Part of the field work is carried out at the Animal Research Station, Huntingdon Rd., Cambridge. The work includes genetical problems relating to rabbits and poultry. A limited number of applns. could be considered from visiting research workers who wished to spend a short period working in the Inst. (*Director*, Prof. R. C. Punnett, M.A., F.R.S.) Applns. should be addressed to the Secretary, School of Agriculture, Cambridge.

5. BUREAU OF ANIMAL POPULATION (Oxford University), Director, Charles Elton, M.A.; address, University Museum, Oxford; headquarters, Department of Zoology and Comparative Anatomy. For research upon the ecology of wild animal populations, with special reference to mammals and game-birds. Clearing-house for literature and other information; also does field censuses, and laboratory studies on breeding, behaviour, food, pathology, etc. Staff: 6 full-time and 3 part-time research workers, and a secretary. Investigations in 1937–1938 included: Canadian snowshoe rabbit inquiry (10-year cycle in N. American wild life); Canadian Arctic wild life inquiry; vole fluctuations in Great Britain in relation to natural disease and to forest damage; Game Research (partridge, grouse, rabbit, hare); census methods on wild rodents generally.

Animal Husbandry, including Animal Breeding (Scotland)

6. ROWETT RESEARCH INSTITUTE, Bucksburn, Aberdeen. The Institute is devoted to research on the chemistry and physiology of nutrition and allied subjects, including nutrition in relation to disease, and the application of nutrition in stock feeding and in human dietetics. There is laboratory accommodation for between 30 and 40 workers. Attached to the Institute is an experimental farm of 600 acres, with

buildings designed for feeding experiments. *Director*, Sir J. B. Orr, D.S.O., M.C., M.A., D.Sc., M.D., F.R.S.

THE IMPERIAL BUREAU OF ANIMAL NUTRITION is centred at the Institute and acts as the clearing-house for information on the subject of nutrition.

Under the joint supervision of the Imperial Agricultural Bureaux Council, the Medical Research Council, and the Reid Library, which is attached to the Institute, there is published quarterly the Journal, *Nutrition Abstracts and Reviews*.

Postgraduate research workers are admitted, and work at the Institute is recognized for doctorate degrees at Aberdeen Univ. Adjoining the Institute is Strathcona House, the headquarters of a residential club known as the Strathcona Club. Workers and overseas visitors are eligible for membership of the Club and Dominion visitors are given a prior claim to bedroom accommodation.

7. HANNAH DAIRY RESEARCH INSTITUTE, Kirkhill, nr. Ayr. This Institute was established in 1928 for the study of problems relating to the production and distribution of milk, and to the manufacture of dairy products. At present work is being concentrated along biological lines, particularly as regards the physiology of milk secretion, the nutrition of the dairy cow, and the study of bovine disease. Work is also being undertaken on problems connected with the processing of milk and of milk products.

The Institute possesses laboratory accommodation for workers in physiology, biochemistry, pathology, and bacteriology, while opportunity for investigations in animal husbandry is available on the Institute's dairy farm. Opportunity is also available to postgraduate students to study for higher degrees of the Univ. of Glasgow. Applications for permission to work in the laboratories should be addressed to the Director.

8. INSTITUTE OF ANIMAL GENETICS (Edinburgh Univ.), King's Buildings, West Mains Road, Edinburgh, 9. The Institute is primarily a postgraduate school of genetics, and sex and reproductive physiology. It has departments of General Genetics, Physiological Genetics, Cytology and Livestock Genetics, the last having an experimental farm stocked with dairy cattle and pigs. Attached to the Institute is a Pregnancy Diagnosis Laboratory. Special facilities are available for graduates proceeding to the Ph.D. and D.Sc. degrees. A laboratory fee of £25 is charged. *Director*, Prof. F. A. E. Crew, D.Sc., Ph.D., M.D.

The IMPERIAL BUREAU OF ANIMAL GENETICS set up for the collection and dissemination throughout the Empire of information bearing on this subject is housed at the Institute. Publication: *Animal Breeding Abstracts* (quarterly).

Animal Husbandry (Northern Ireland)

9. [CHEMICAL AND] ANIMAL NUTRITION DIVISION (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. *See also* (a) 18 above. The Division is working on problems concerned with the nutrition of

farm animals. Particular attention is being paid to pig nutrition and a study of the mineral metabolism of laying pullets is in progress. Poultry nutrition work is also being carried out in collaboration with the Rowett Research Institute and the Poultry Depts. of the Scottish Agricultural Colleges. An experimental plant for poultry nutrition has been established at Hillsborough, Co. Down, in connexion with the work of the Division.

10. [Crop and] Animal Husbandry Research Division (Ministry of Agriculture, N. Ireland), Agricultural Research Institute of N. Ireland, Hillsborough, Co. Down.

11. Agricultural Research Institute, Hillsborough, Co. Down. The Institute consists of (*a*) an experimental farm of 500 acres mainly devoted to work in animal nutrition; (*b*) a poultry plant with a capacity for 3000 birds devoted to research work in nutrition. The Institute is under the management of a Board of Trustees representative of the Ministry of Agriculture, the Queen's University Faculty of Agriculture, the Ulster Farmers' Union, and the Ulster Agricultural Organization Society.

12. Dairy Bacteriology Division (Ministry of Agriculture, N. Ireland), The Queen's Univ., Belfast. The main work of this Division falls under two heads: (i) Graded milk; (ii) Control of Creameries. The Division is devising methods for the control of butter and cream manufacture in creameries. It also affords advisory services in connexion with general bacteriological problems.

(e) *Agricultural Economics*

Agricultural Economics Research Institute (Oxford Univ.), Parks Road, Oxford. The work of the Institute embraces fundamental research in Agricultural Organization and the investigation of the problems of Farm Management, the distribution of Farm Produce, and Supplies and Prices. The Institute is open to postgraduate students with a standing entitling them to read for the B.Litt., B.Sc., or D.Phil. of Oxford Univ. and who intend to study for one of these research degrees. *Director*, C. S. Orwin, M.A. Inquiries should be addressed to the Secretary.

(f) *Food Preservation and Transport*

1. Low Temperature Station for Research in Biochemistry and Biophysics (Dept. of Scientific and Industrial Research in conjunction with Camb. Univ.), Cambridge. The work in progress falls under the following heads: (i) Plant problems; (ii) Animal problems; (iii) Fungal and bacteriological problems; (iv) Canning problems; (v) Engineering problems; (vi) Problems of salting and smoking. *Superintendent*, F. Kidd, M.A., D.Sc.

2. Ditton Laboratory (Dept. of Scientific and Industrial Research), East Malling, Maidstone, Kent. Research is carried out on the storage and transport of fruit and vegetables and on cognate problems in engin-

eering. The laboratory includes an experimental refrigerated ship's hold with a capacity of 120 tons. *Superintendent*, C. West, D.Sc.

3. THE BIOLOGICAL FIELD STATION (Imperial College of Science and Technology), Hurworth, Slough, Bucks, was established in 1929 by grants made by the Empire Marketing Board, for the conduct of research on the scientific problems underlying the importation of stored products of all kinds. It has since been developed for the training of advanced students in research and biological field work and comprises several laboratories for research in entomology, physical chemistry basis to biology, plant pathology and insect and plant ecology. Twenty-five acres are available for field collecting and for experimental plot work. The field station comprises insectaries, constant temperature rooms, glass-houses, a special laboratory with refrigerator, and fumigation chambers, including one for work on a commercial scale. *Director*, Prof. J. W. Munro, M.A., D.Sc. For names of staff, *see* p. 170.

(g) *Agricultural Engineering*

INSTITUTE FOR RESEARCH IN AGRICULTURAL ENGINEERING (Univ. of Oxford), 10 Parks Road, Oxford. The aim of the Institute is to undertake research in all depts. of agricultural engineering. These include: (i) The intensive use of machinery on the farm (Power Farming), with special attention to sources of power (tractors, etc.), and to modern methods of farming (combine harvester-thresher, etc.); (ii) Implements; (iii) The use of electricity on the farm; (iv) Field drainage. The Institute also conducts tests under the Ministry of Agriculture's Testing Scheme and has an extensive advisory service. Inquiries to be addressed to the Director (S. J. Wright, M.A.).

II. FORESTRY.

IMPERIAL FORESTRY INSTITUTE, Oxford. *See* p. 281.

THE FORESTS PRODUCTS RESEARCH LABORATORY. *See* V. 4.

III. FISHERIES AND PRESERVATION OF FISH.

Persons wishing to avail themselves of the resources of any of the following centres 4, 5, and 7 should communicate with the Ministry of Agriculture and Fisheries, 43 Parliament St., London, S.W.1; for centres 9 and 10 with the Fishery Board for Scotland, 101 George St., Edinburgh; and for centre 11 with the Dept. of Scientific and Industrial Research, 16 Old Queen St., London, S.W.1.

1. MARINE BIOLOGICAL ASSOCIATION. A number of research tables at the Plymouth Laboratory are provided free of cost on the nomination of Governors (among others the Univs. of Oxford and Cambridge) and Founders of the Marine Biological Assocn. of the United Kingdom. *The Ray Lankester Fund* provides for the payment of £100 to an Investigator to be appointed from time to time by the trustees on condition of his spending at least 5 months in carrying on researches at the Laboratory. There is a post of Student Probationer open to Honours

graduates, tenable for 2 yrs. at £200 p.a. For full particulars application should be made to the Director and Secretary to Council (S. Kemp, Sc.D., F.R.S.), Citadel Hill, Plymouth, Devon.

2. DOVE MARINE LABORATORY, Cullercoats, Northumberland. The Laboratory is the property of King's College, University of Durham, and is well fitted for research in marine zoology and botany and in physiology. Application for tables should be made to the Director, Professor A. D. Hobson, Zoological Department, King's College, Newcastle upon Tyne. Special facilities for postgraduate research.

3. MARINE BIOLOGICAL STATION, PORT ERIN, Isle of Man (Dept. of Oceanography, Liverpool Univ.). *Director* (Acting for the Prof. of Oceanogr.), R. J. Daniel, D.Sc. This seaboard station for biological research includes 2 large class-rooms or laboratories; a well-equipped biochemical laboratory, 14 small working rooms, library, dark-room and stores, workshops; an aquarium and small museum; and a fish-hatchery and open-air ponds. Accommodation is provided for both undergraduate students and investigators at all times in the year. Application for work-places should be made to Mr. J. R. Bruce at the Station. A limited number of research (postgraduate) students can also be accommodated at the Dept. of Oceanography at the Univ. Application to be made to the Registrar.

Accommodation for students and researchers in Marine Biol., particularly on the biochemical side, is provided at the Station. Applns. as above.

4. FISHERIES LABORATORY, Lowestoft. The main Laboratory of the Fisheries Department of the Ministry of Agriculture and Fisheries, well equipped for deep sea research. A research trawler and a motor-vessel are kept in commission during the greater part of the year. There is no special provision for outside workers, but duly accredited persons interested in fishery research will be given facilities on application to the Director.

5. FISHERIES EXPERIMENT STATION, Castle Bank, Conway. Equipped by the Fisheries Department (Ministry of Agric. and Fisheries) for shellfish research, especially in connexion with sewage pollution and artificial breeding. Accommodation for outside workers is limited. Application should be made to the Director.

6. FISHERIES RESEARCH DEPT., UNIVERSITY COLLEGE, Hull. A Fisheries Research section is conducted under the directorship of Prof. A. C. Hardy, M.A., in the Dept. of Zoology and Oceanography, with a staff of six research biologists, one of whom is a Leverhulme Fellow in Fisheries Research. A scheme of research, which concerns the distribution of plankton in relation to that of fish, particularly the herring, is being carried out in coordination with the researches of the Ministry of Agriculture and Fisheries and the Fishery Board for Scotland. An Oceanographic Laboratory, a sub-section of the Dept., has been opened at Leith, with Mr. C. E. Lucas in charge, to carry out the investigations in more northern waters. The cost of maintenance is borne largely by the Development Commission with grants in aid from the Viscount

Leverhulme Trustees, the Fishmongers' Company and the Hull Fishing Vessel Owners' Assn. Facilities are offered to postgraduate research workers. Applications to the Registrar.

7. FISHERIES RESEARCH STATION, Alresford, Hants. A small laboratory on the river Itchen, maintained by the Fisheries Department (Ministry of Agric. and Fisheries) for work on freshwater ecology in relation to pollution. Accommodation for outside workers is very limited.

8. THE FRESHWATER BIOLOGICAL ASSOCIATION OF THE BRITISH EMPIRE. The Central Laboratory of the Association is in Wray Castle on the west shore of Windermere. There is a staff of a Director, 5 Assistant Naturalists, a Bacteriologist, a Secretary, etc. The Laboratory is equipped for general biological and hydro-biological work on the lakes, reservoirs, rivers and streams of the Lake District. There is a specially equipped launch and a boat with motor attached for work on Windermere itself. Visiting research workers may make use of the facilities of the Laboratory, Library, Museum, boats and equipment, and accommodation (both board and lodging) is provided in Wray Castle. A number of research tables at the Laboratory are provided free of cost to workers on the nomination of subscribing Univs. During each Easter vacation a course is conducted on the principles and practice of freshwater biology and a second course will be arranged during the summer of 1939 if sufficient demand exists. Applicants should write to the Director, Wray Castle, Ambleside, Westmorland.

(*Scotland*)

9. FISHERY BOARD FOR SCOTLAND. The Marine Laboratory, Wood St., Torry, Aberdeen, and the Marine Aquarium, Bay of Nigg, Aberdeen, are Govt. fishery and marine biology establishments. Two vessels fitted with modern apparatus are in commission for the greater part of each year : (*a*) the steamship *Explorer* engaged in deep-sea work (incl. trawling) in Scottish and North Atlantic waters, and (*b*) the motor-boat *Kathleen* employed in surveying coastal areas. One or two outside research workers may be accommodated, but no special provision for such exists. The Board's Scientific Supt. is R. S. Clark, M.A., D.Sc., F.R.S.E.

10. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, Millport, Scotland, admits students and research workers : table space rental, subscribers, 10s. 6d., non-subscribers, £1 : 10 : 6, per week, including loan of microscope and use of ordinary reagents, library and reference collections, boats and collecting appliances when available. Trade dept. for sale of specimens. For full particulars apply to the Director, Marine Station, Keppel Pier, Millport, Buteshire.

Preservation of Fish

11. TORRY RESEARCH STATION (Dept. of Scientific and Industrial Research), Aberdeen. Research is carried out on the transport and

storage of fish and on fish by-products. *Officer in Charge*, G. Reay, M.A., B.Sc., Ph.D.

IV. Tides and Meteorology.

Liverpool Observatory and Tidal Institute. The work carried on is as follows: (1) The continuous prosecution of scientific research into all aspects of knowledge of the tides and of kindred geophysical subjects; (2) the analysis of tidal observations and the preparation of tide-tables; (3) the taking of meteorological and seismological observations, together with the supplying of information on these subjects; (4) the maintenance and firing of the Time-gun; (5) the testing of chronometers and navigational instruments. Students may be admitted on appln. to the Director of the Institute (Prof. J. Proudman, M.A., D.Sc., F.R.S.), The University, Liverpool.

V. Industrial.

Department of Scientific and Industrial Research, 16 Old Queen St., London, S.W.1.

(i) Research Stations, Nos. 1-8.

Persons wishing to avail themselves of the resources of any of these centres are advised to communicate with the Dept. in the first instance for suggestions and advice. Research workers from overseas are not accommodated in these stations unless sent by Dominion or Colonial Governments by arrangement with the Department. Visitors from the Dominions or Colonies making inquiries on subjects falling within the scope of the various stations will, however, be supplied with such information as is available for communication.

1. The National Physical Laboratory, Teddington, Middlesex, was founded in the year 1901 as a public institution for standardizing and verifying instruments, testing materials, and for the determination of physical constants. The Laboratory comprises the following main depts.: Physics; Electricity; Radio; Metrology; Engineering; Metallurgy; Aerodynamics; William Froude Laboratory. *Director*, C. G. Darwin, M.C., Sc.D., F.R.S.

2. The Fuel Research Station, Blackwall Lane, Greenwich, London, S.E.10, carries out investigations on the nature, preparation, and utilization of fuel of all kinds. The equipment of the Station includes large-scale plant for the carbonization, gasification, hydrogenation, cleaning, and briquetting of coal, boiler installations, and internal combustion engines for testing liquid fuel, as well as laboratories for small-scale investigations. *Director*, F. S. Sinnatt, C.B., M.B.E., D.Sc., F.R.S.

3. The Geological Survey of Great Britain and Museum of Practical Geology, Exhibition Road, South Kensington, London, S.W.7, assists students and others doing research as follows: (*a*) Palæontology, Petrology, and Mineralogy; the collections of British fossils, rocks, and minerals are always available under the guidance of the officer

in charge. If sufficient reason is shown specimens may be lent out. Microscopes and all necessary apparatus are provided in the Survey's laboratories. (*b*) Mapping and field work.

In the library attached to the Museum large-scale maps of all parts of Britain which have been geologically surveyed are open for reference, and often the officers who made the maps are at hand to explain points of difficulty. The library is especially rich in foreign surveys and in British geological literature. The Museum is open free on week-days (except Good Friday and Christmas Day), 10–6, and on Sundays, 2.30–6. The library is available for reference on week-days, 10–5. *Director*, E. B. Bailey, M.C., M.A., D.Sc., F.R.S.

4. THE FOREST PRODUCTS RESEARCH LABORATORY, Princes Risborough, Aylesbury, Bucks, is concerned with the general study of forest products, especially timber, with a view to their more efficient conservation and economical use. *Director*, W. A. Robertson.

5. THE BUILDING RESEARCH STATION, Bucknall's Lane, Garston, nr. Watford, Herts, is concerned with general research into building materials and methods of construction. *Director*, R. E. Stradling, C.B., M.C., D.Sc., Ph.D., M.Inst.C.E.

6. THE CHEMICAL RESEARCH LABORATORY, Teddington, Middlesex, undertakes research on Corrosion of Metals, High Pressure Problems, Tars, Chemotherapy, Synthetic Resins, Water Pollution, Dental Materials, Microbiology. *Director*, G. S. Whitby, Ph.D., LL.D.

7. THE FOOD INVESTIGATION STATIONS of the Department are concerned with research on the storage and transport of foodstuffs. The LOW TEMPERATURE RESEARCH STATION, Downing Street, Cambridge, is concerned mainly, but not exclusively, with fruit and meat; the DITTON LABORATORY, East Malling, Maidstone, Kent, with fruit; the TORRY RESEARCH STATION, Aberdeen, with fish. *See above, passim. Director of Food Investigation*, E. Barnard, D.S.O., 16 Old Queen St., London, S.W.1.

8. ROAD RESEARCH LABORATORY, Harmondsworth, West Drayton, Middlesex, is concerned with research into road materials and processes for road-making. *Director*, R. E. Stradling, C.B., M.C., D.Sc., Ph.D., M.Inst.C.E.

(ii) Research Associations, Nos. 9-30.

Applications relating to these centres should be made direct.

9. THE INSTITUTION OF AUTOMOBILE ENGINEERS, AUTOMOBILE RESEARCH COMMITTEE. Headquarters—12 Hobart Place, London, S.W.1. Research Laboratory—Great West Road, Brentford, Middlesex. The object of the Committee is to promote research in connexion with the British motor trade, to eliminate needless repetition and overlapping of expenses by pooling resources. Outstanding research has already been carried out on such subjects of general interest as cylinder wear and valve seat materials. The plant and the information collected by the late Research Assn. of British Motor and Allied Manufacturers has been placed at the disposal of the Committee. An important feature of the Committee's activities is the collection and

classification of information of value to the industry and the monthly publication of abstracts from the English and Foreign Technical Press. The Research reports are, in general, confidential to Affiliated Manufacturers and Affiliated Operators of the Institution. *Director* of *Research*, C. G. Williams, M.Sc. Inquiries to be addressed to the Secretary at the Headquarters of the Institution.

10. THE BRITISH BOOT, SHOE, AND ALLIED TRADES RESEARCH ASSOCIATION, 19 Bedford Square, London, W.C.1, conducts research into problems that arise in the manufacture in bulk quantities of footwear, in its distribution to the general public, and during its wear. The researches cover a wide field, embracing methods of measuring feet, statistical studies of the distribution of different types of feet, the design of lasts to suit different types of feet, the properties of shoe materials, the care of them and their economical use, and the chemical and other effects that may arise in the wear of shoes. A certain amount of work is carried out in collaboration with factories and technical colls. Students have from time to time been admitted to the Association's laboratories. The research reports are in general confidential to members of the Association and to certain Government Depts., but some are published, generally in the *Journal of the International Society of Leather Trades Chemists*. Membership of the Assocn. consists principally of boot and shoe manufacturers, but it also includes a number of manufacturers and suppliers of various shoe materials, such as textile fabrics, textile threads, shoe polishes, cleaners, dressings, and a few engineering firms who manufacture shoe machinery. *Director*, H. Bradley, B.Sc., D.I.C., A.R.C.Sc.

11. BRITISH CAST IRON RESEARCH ASSOCIATION, 21-23 St. Paul's Square, Birmingham, of manufacturers of pig iron, grey iron, and malleable castings of all kinds, for research in the constitution, methods of production, and after-treatment of these and auxiliary materials, such as refractories, sands, fuels, slags, fluxes, etc. Their Central Laboratory is in Birmingham and an auxiliary laboratory in Falkirk, but other research work is carried out at university and other research laboratories and at the National Physical Laboratory. Investigators interested in any phase of research work on cast iron may use the Association's Information Bureau, and the Director (J. G. Pearce, M.Sc., M.I.E.E., M.I.Mech.E., F.I.C.) is prepared to cooperate in planning investigations. Bulletin of abstracts and information on current metallurgical literature published six times a year.

12. THE BRITISH COLLIERY OWNERS' RESEARCH ASSOCIATION, General Buildings, Aldwych, London, W.C.2. This is an Association whose members are representatives of the various district colliery owners' associations constituting the Mining Association of Great Britain.

Though the Association conducts directly a certain amount of research work into mining problems, generally speaking it finances approved items of research work to be conducted on its behalf. Its reports are, in general, confidential to members of the Association, but from time to time reports on specific items of work are published for general circulation. *See also* 32 *and* 33.

13. THE BRITISH ASSOCIATION OF RESEARCH FOR THE COCOA, CHOCOLATE, SUGAR CONFECTIONERY, AND JAM TRADES, 22 Buckingham Gate, London, S.W.1 (Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7), conducts research into problems connected with the manufacture of these products, though occasionally some portions of an investigation may be conducted in a factory. The research reports are issued to members and certain Govt. Depts. only, and, with a few exceptions, are confidential. Some reports, particularly those dealing with analytical investigations, are pubd. in scientific or trade journals. *Director*, T. Macara, F.I.C., F.C.S. Inquiries to be addressed to the Secretary.

14. THE BRITISH COTTON INDUSTRY RESEARCH ASSOCIATION, Shirley Institute, Didsbury, Manchester, does not admit students to work in its laboratories. Its research results are communicated to its members, and the papers released for open publication are issued in the Journal of the Textile Institute, 16 St. Mary's Parsonage, Manchester. A special Silk Research Dept. has been established to take over the work formerly carried on by the British Silk Research Assn. *Director*, Sir Robert H. Pickard, D.Sc., Ph.D., F.R.S., F.I.C. Communications to be addressed to the Association.

15. THE BRITISH ELECTRICAL AND ALLIED INDUSTRIES RESEARCH ASSOCIATION, 15 Savoy Street, London, W.C.2, is supported by all sections of the electrical industry, manufacturers, suppliers and users, and its annual income approximates to £85,000. It arranges programmes of research applicable to all matters pertaining to the electrical and allied industries. Many of these are carried out at the Association's own laboratory or in the field, but others are carried out with the help of the National Physical Laboratory, manufacturers' laboratories, the Universities and Technical Colleges (sometimes under contract with members of staffs or students) and in Power stations. The Association aims at securing co-ordination of research work and realization of maximum benefits from it. In general it devotes its work to researches for the benefit of the industry at large, leaving to manufacturers research work which is primarily for their individual benefit. Most of its reports are confidential to members in the first instance, but many are published, *e.g.* in the *Journal* of the Institution of Electrical Engineers. *Director and Secretary*—E. B. Wedmore, C.B.E., M.I.E.E., F.Inst.P.

16. THE RESEARCH ASSOCIATION OF BRITISH FLOUR MILLERS, 40 Trinity Square, London, E.C.3 (Laboratory: Old London Road, St. Albans, Herts.), conducts research into problems connected with the manufacture and use of wheat flour and other products of wheat. The researches are carried out mainly at the laboratories of the Association, under the supervision of the Director of Research. Practical industrial applications of the laboratory scale work are studied in the mills of constituent firms. Reports of scientific work are, in general, confidential to members of the Association, but some are released from time to time for publication in the scientific or technical press. A library of scientific and technical books and periodicals bearing directly on flour milling and baking problems has been developed, and is an " outlier " of the

National Central Library. It is accessible to students and others interested. Students as a rule are not admitted to work in the Association's laboratories. *Director*, E. A. Fisher, M.A., D.Sc., F.I.C., F.Inst.P.

17. THE BRITISH FOOD MANUFACTURERS' RESEARCH ASSOCIATION, 22 Buckingham Gate, London, S.W.1; Laboratories, 2 and 4 Dalmeny Avenue, Holloway, London, N.7. This Association was originally intended to include branches of the food industries not covered by the Association for the Cocoa, Chocolate, Sugar Confectionery, and Jam Trades, but the membership consists mainly of manufacturers of sausages, cooked meats, and other meat products, preserved fish, and also bacon and ham curers.

The researches into problems connected with these products are conducted in the Association's laboratories, and occasionally parts of the investigations may be carried out in factories. The reports are confidential, and are issued to members and certain Government services only. So far only reports of general interest to chemists have been published in scientific or trade journals. *Director*, T. Macara, F.I.C. Inquiries to be addressed to the Secretary.

18. BRITISH IRON AND STEEL FEDERATION (Industrial Research Council), Caxton House, Tothill St., London, S.W.1, was formed on Jan. 1, 1929, to work in conjunction with the Dept. of Scientific and Industrial Research. The Council directs a wide range of research activities concerned with iron and steel practice, various aspects being controlled by 31 committees, sub-committees, and panels of the Council. Problems of production are investigated by technical committees. Of these the Blast Furnace Committee is concerned with researches on coke, blast furnace practice, refractories and slags, while the fundamental aspects of blast furnace phenomena are being studied by sub-committees and panels controlling research activities both in the laboratory and in the field.

A similar policy has been adopted by the Open Hearth Committee, which examines problems of steel production, and by the Rolling Mill Committee, which is concerned with the production of finished steel.

A group of four committees working in cooperation with the Iron and Steel Institute is examining—largely from the scientific side—problems of steel quality, *e.g.* heterogeneity of ingots, corrosion, steel castings and alloy steels.

Committees of the Council are also studying problems of sheet and tinplate production, use of steel sheets in building construction, and problems of smoke prevention.

Research work for the industry is done under the direction of these committees at the National Physical Laboratory, at the British universities, at works research laboratories, and in some cases at centres established for specific research purposes. Full cooperation is maintained with research workers of the industry and their investigations (financed by the individual firms and not from the funds of the Research Council) are placed freely at the disposal of the Council in the interests of the industry as a whole.

Effective cooperation exists between the Government and other

research associations in this and other countries engaged in research of a similar nature to that of the Council.

Inquiries to be addressed to the Secretary.

19. THE BRITISH LAUNDERERS' RESEARCH ASSOCIATION, 16 and 17 Lancaster Gate, London, W.2 (Laboratory: Hill View Gardens, Hendon, N.W.4), was formed to promote research and other scientific work in connexion with the laundry and cleaning trades or industries. In addition to the Research and Analytical Laboratories, Engineering Dept., and Library, a full scale Experimental Laundry is provided. The work carried out includes the investigation and development of suitable washing, drying and finishing processes for the laundering of all types of washable fabrics, the examination of detergent materials and the study of the performance of laundry plant. Fundamental research is being carried out on emulsification, suspension, and the washing of wool. Members are entitled to technical advice on any matters pertaining to the laundry industry. Courses of instruction are conducted at the laboratories, and lectures are given in various parts of the country. Publications: *The Technology of Washing* (1935); *The Chemistry of Laundry Materials* (1931). *Director*, F. Courtney Harwood, B.Sc., F.I.C., M.I.Chem.E.

20 THE BRITISH LEATHER MANUFACTURERS' RESEARCH ASSOCIATION (Offices, 8 St. Thomas St.; Laboratories, 18-20 St. Thomas St., London, S.E.1) conducts research in regard to the manufacture (tanning, currying and dressing) of leather and the raw materials of the industry. The research reports are generally confidential to members of the Association and to certain Government services, but a number of papers are printed in scientific or trade journals or separately for more general circulation. *Director*, Miss D. Jordan-Lloyd, M.A., D.Sc., F.I.C.

21 THE LINEN INDUSTRY RESEARCH ASSOCIATION, Lambeg, Co. Antrim, N. Ireland, with Botanical Section at the Flax Research Institute, Flitcham Abbey, nr. King's Lynn, Norfolk. The work includes the investigation of problems arising in flax cultivation, fibre preparation, flax spinning, linen weaving, bleaching, dyeing, finishing and in the use of linen goods. There is scope for much original research in economic botany, agriculture, bio-chemistry, and physics, particularly the properties of colloids. The results of researches are frequently published in scientific journals. A scheme of training in Industrial Science for Research Students is in operation. This enables students to obtain a special B.Sc. degree and at the same time to acquire practical experience in industrial research. Senior Research Awards of the Ministry of Education of N. Ireland are tenable at the Research Institute. A scholarship of £240 spread over 3 yrs. tenable at the Research Institute, Lambeg, has been instituted by The Honourable The Irish Society. This is open only to students educated in certain schools in Co. Derry. A similar scholarship is offered by the Association open to all students. These enable the holders to secure a Univ. degree while doing research. *Director*, W. H. Gibson, O.B.E., D.Sc., F.I.C., F.Inst.P. Communications to be addressed to the Secretary.

22. THE BRITISH NON-FERROUS METALS RESEARCH ASSOCIATION, Regnart Buildings, Euston St., London, N.W.1 (Telegrams—Metreserch, Norwest, London), aims to cover the whole field of the non-ferrous metals and their alloys. Membership of the Association is open to individuals and companies in any part of His Majesty's Dominions who have industrial interests in non-ferrous metals whether as smelters, manufacturers, or users. Research, Development and Information Depts. operate together in newly built laboratories in London. The results are in the first instance reserved to members, although much is being published. So far as possible, the Association will be pleased to inform scientific workers from the Overseas Empire of the work it has undertaken or already published. *Director*, H. Moore, C.B.E., D.Sc , Ph.D., F.I.C., F.Inst.P.

23. THE RESEARCH ASSOCIATION OF BRITISH PAINT, COLOUR AND VARNISH MANUFACTURERS, Tavistock House (South), Tavistock Square, London, W.C.1 (Paint Research Station, Waldegrave Road, Teddington, Middlesex), founded 1926, conducts researches into problems relating to the treatment of the raw materials and the fabrication and application of the finished products of the industries suggested by the title as well as the allied industries of printing ink, linoleum, and artificial cloth manufacture. The researches are mainly of a fundamental nature and are wholly prosecuted in the laboratories at the Paint Research Station.

The research reports are, in general, confidential to members. Annual reports and bulletins are issued from time to time. The Association also issues bi-monthly a Review of Current Literature relating to the Paint, Colour, Varnish and Allied Industries, which embraces about 3000 abstracts per annum. This Review is now available to interested persons or Companies both in Gt. Britain and abroad, price £2 : 2s. p.a. from the publishing agents, Messrs. Chorley and Pickersgill, Ltd., Amberley House, Norfolk Street, London, W.C.2. *Director*, A. L. Jordan, D.Sc., A.R.C.S., F.I.C.

24. THE BRITISH POTTERY RESEARCH ASSOCIATION, offices at Federation House, Stoke-on-Trent, laboratories at Beechfield, Queen's Rd., Penkhull, Stoke-on-Trent. Tel., Stoke-on-Trent 48741. Incorporated in 1937 to undertake research work into problems of the pottery industry and allied trades. The branches primarily concerned are: Earthenware, Glazed Tile, China, Fine China, Sanitary Fireclay, Sanitary Earthenware, Electrical Porcelain, Jet and Rockingham. In addition to investigating manufacturing problems the Association does a certain amount of fundamental work on the raw materials used in the industry. Bulletins containing the results of investigations are published periodically and circulated confidentially to members. *Director of Research*, Marcus Francis, B.Sc., Ph.D., F.I.C.

25. THE PRINTING AND ALLIED TRADES RESEARCH ASSOCIATION (Registered 1930), Patra House, 10 Robin Hood Court, London, E.C.4, conducts research on technical problems in the printing, papermaking, inkmaking and allied trades. Works problems from members are also investigated. The Association is supported by individual firms, em-

ployers' and employees' trade organizations and a grant from the Dept. of Scientific and Industrial Research. Research reports are issued confidentially to members, although some information on matters of general interest is published from time to time in Trade Press. Lectures on technical subjects are also arranged. *Director*, G. L. Riddell, Ph.D., A.I.C.

26. THE BRITISH REFRACTORIES RESEARCH ASSOCIATION, Drayton House, 30 Gordon St., London, W.C.1, conducts investigations designed to improve the manufacture, quality, and methods of using the heat-resisting materials of which high-temperature installations, including coke-ovens, gas-retorts, and blast and other metallurgical furnaces are constructed. Whilst having its own special field of work, many of its investigations prove of fundamental interest to the clay industries generally, fuel technologists, and metallurgists. Research headquarters —known as the Mellor Laboratories—are at Shelton, Stoke-on-Trent, and one branch of its work is carried out at Sheffield Univ. Bulletins containing the results of investigations are published periodically, and issued confidentially to members of the Research Assn. Occasional special Bulletins are released for general circulation, and Reports are published from time to time at the discretion of the Council in the appropriate technical journals. *Director*, A. T. Green, F.I.C., F.Inst.P.

27. THE RESEARCH ASSOCIATION OF BRITISH RUBBER MANUFACTURERS, 105/107 Lansdowne Road, Croydon, Surrey, has research and testing laboratories, together with a technical library and information bureau to deal with inquiries from its members, Government Departments, and scientific workers in the Dominions. Carries out research, chiefly of a confidential nature, through its own staff. Publications issued monthly to members and subscribers include a *Journal and Summary of Current Literature*, containing original papers and abstracts of technical and scientific publications relating to all branches of the rubber industry, a *Rubber Patent and Trade Mark Review*, and *Rubber Economic Intelligence*. *Director*, B. D. Porritt, M.Sc., F.I.C., F.Inst.P.

28. THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION, 26 Russell Square, London, W.C.1 (Telegrams—Promores, Westcent, London), conducts research into problems pertinent to the manufacture and use of scientific instruments, including optical, surveying, nautical, and electrical instruments, and electro-medical and X-ray apparatus, and also into optical glass. It has headquarters laboratories at 26 Russell Square, and researches are prosecuted in works laboratories and works of member firms. Students are not admitted to work in the Association's laboratories. The research reports are, in general, confidential to members of the Association and to certain Government services, but some are published from time to time, either in scientific journals or separately for general circulation. The annual reports of the Association are distributed to certain public libraries, etc., at home and abroad, but otherwise are available only to members. Among the institutions receiving them are :

the Research Council Library, Parliament Buildings, Ottawa, Canada; Council of Scientific and Industrial Research, 314 Albert St., East Melbourne, Australia; Advisory Board of Industry and Science of the Union of S. Africa, New Law Courts, Johannesburg; Survey of India, 15 Wood St., Calcutta; National Research Council, 1201 Sixteenth St., Washington, D.C.; the Library, Dept. of Agriculture, West Block, Ottawa, Canada. In London: the Australian Book Co., 37 Gt. Russell Street, W.C.1; Patent Office Library, 25 Southampton Buildings, W.C.2; The Science Museum, and the Imperial Institute, both at South Kensington, S.W.7. *Director of Research*, A. J. Philpot, O.B.E., M.A., B.Sc., F.Inst.P.

29. THE SCOTTISH SHALE OIL SCIENTIFIC AND INDUSTRIAL RESEARCH ASSOCIATION, 53 Bothwell St., Glasgow, C.2. The research work of the Association is now being carried on in the Central Laboratories of Scottish Oils, Ltd., in the shalefields. There are no special facilities for research students, those engaged on the work coming from the organizations of the companies engaged in the industry.

30. THE WOOL INDUSTRIES RESEARCH ASSOCIATION, "Torridon," Headingley, Leeds 6 (Telegrams—Woolira, Leeds). By arrangement with the Univ. of Leeds, post-graduates proceeding to higher degrees can carry out their research work at the Association's laboratories. The results of research carried out at the headquarters of the Association are published in the Journal of the Textile Institute, the Journal of the Society of Dyers and Colourists, Bio-Chemical Journal, Journal of Agricultural Science, etc. Other reports are retained in the first instance for private circulation to members of the Association, but may subsequently be released for general circulation. *Director of Research*, B. H. Wilsdon, M.A., B.Sc. Communications to be addressed to the Secretary, A. Frobisher, B.Sc.

OTHER CENTRES OF INDUSTRIAL RESEARCH AND INFORMATION

31. IMPERIAL INSTITUTE, Imperial Institute Road, S. Kensington, London, S.W.7 (Director, Sir Harry A. F. Lindsay, K.C.I.E., C.B.E.). One of the objects of the Institute is to promote the utilization of the raw materials of the Empire, and the investigations carried out in its laboratories are primarily directed to this end. The work includes the examination of all kinds of plant and animal products and minerals. Valuable information relating to the composition, properties, etc., of raw materials of all kinds has been accumulated in the course of the work; and the Institute will be glad to assist overseas research workers dealing with such materials by supplying any available information regarding particular products in which they are interested. Arrangements can be made in special cases for workers from overseas to carry out investigations in the laboratories of the Institute.

Special departments of the Institute deal with inquiries relating to the sources, production, uses, and marketing of raw materials and with the collection and dissemination of general and statistical information concerning them. A series of Consultative Technical Committees consisting of authorities on the various groups of raw materials cooperate

in the work of the Institute. A Reference Library, containing a wide range of works of a scientific or technical character, is available for the use of visitors. The Public Exhibition Galleries contain comprehensive collections illustrating the natural resources, industries, scenery and life of each country of the Empire overseas, and these are supplemented by lectures and daily film displays in the Institute's Cinema. The Empire Film Library maintained by the Institute contains cinematograph films illustrating the industry and agriculture as well as the life and products of the United Kingdom and the Empire overseas. The films are available for loan to schools and other approved bodies in this country without charge other than the cost of carriage both ways. The publications include the quarterly *Bulletin of the Imperial Institute*, an annual volume of *Mineral Statistics*, monographs on economic minerals and products of plant and animal origin, and other publications.

32. THE SAFETY IN MINES RESEARCH BOARD, Dean Stanley Street, Millbank, London, S.W.1. This Board is composed of scientific and mining members appointed by the Secretary for Mines to conduct and coordinate research into the causes of mining dangers and the means for preventing such dangers.

The work is financed chiefly by endowment and grants provided from the Miners' Welfare Fund, and is carried out mainly by the Board's own staff at its large-scale experimental station at Buxton, its laboratories at Sheffield, and at the Royal School of Mines in London. Grants for the maintenance of approved research are also made by the Board, *e.g.* to workers at Edinburgh University.

Researches are in progress into the prevention of coal-dust explosions, fire-damp explosions, and the spontaneous combustion of coal; the safety and safe use of electricity, explosives and safety lamps; the prevention of accidents from falls of ground and haulage operations; the improvement of wire ropes and mine rescue apparatus, and the ventilation of deep and hot mines. The falls-of-ground research includes, in addition to laboratory work on the design and strength of roof supports, a comprehensive scheme of underground experimental work at collieries, carried out in cooperation with the branches of the Instn. of Mining Engineers, and the haulage research is being carried out on similar lines. Work is also in progress on the design and use of protective clothing for preventing injuries to head, hands, eyes and feet. The results of the researches are published in the Board's own technical papers and *Annual Reports* (which are on sale through H.M. Stationery Office) and in scientific journals.

The Board, in addition to its research activities, engages in safety propaganda among mine workers. Experimental demonstrations are given at the Buxton Research Station to miners, mine officials and mining teachers from colliery districts, and a special series of illustrated booklets is published under the title, *What Every Mining Man should Know*. Propaganda is also carried out by means of films.

Arrangements are made for cooperation with the principal mining research organizations abroad.

33. MINING RESEARCH LABORATORY OF THE BRITISH COLLIERY

OWNERS' RESEARCH ASSOCIATION, Imperial College of Science and Technology, Royal School of Mines, South Kensington, S.W.7. (Director, J. Ivon Graham, M.A., M.Sc., F.I.C.) The work and the staff of the Laboratory previously at the University of Birmingham were transferred on March 31, 1937, to the Imperial College. The expenses of administration and of some of the researches are covered by a grant from the Mining Assn. of Gt. Britain through the British Colliery Owners' Research Assn. The expenses of other investigations are covered by a grant from the Safety in Mines Research Board (Miners' Welfare Fund). The Laboratory is engaged in researches on problems connected with mining, partly physical, partly chemical, and partly physiological. At present the main problems under investigation are the reduction of dust in underground operations, silicosis, comfort conditions underground, facts controlling the evolution of fire-damp and the control of spontaneous combustion underground, and mine lighting.

The results of the work are published in various technical journals. Much of the work is done at mines throughout the country, but controlled from the Laboratory.

34. THE BRITISH MUSEUM LABORATORY, 39 Russell Square, London, W.C.1, is devoted to investigations on the best methods of preserving and restoring museum exhibits of any kind and of every age. Three reports published by H.M. Stationery Office, 1921, 1923 and 1926. Articles contributed to *Museums Journal* and *British Museum Quarterly*. See also *The Preservation of Antiquities* and *The Conservation of Prints, Drawings and Manuscripts*, by H. J. Plenderleith (both pubd. by the Oxford Univ. Press). Inquiries to be addressed to the *Deputy-Keeper in Charge*, H. J. Plenderleith, M.C., B.Sc., Ph.D., F.R.S.E.

35. THE SCIENCE MUSEUM, Exhibition Road, South Kensington, S.W.7 (Director, Colonel E. E. B. Mackintosh, D.S.O.), which is the National Museum of Science and Industry, was established in 1856, and its collections now occupy 200,000 sq. ft. of exhibition space. Its purpose is to illustrate science and the application of science to industry, at the same time to show the gradual development of the modern efficient types from earlier and more simple ones.

The Museum is open free on week-days, 10 A.M. to 6 P.M., and on Sundays, 2.30 to 6 P.M. It is closed on Good Friday and Christmas Day.

Pure Science is represented by the collections of instruments and apparatus used for study and research in the phenomena of various branches of physics, electricity, heat, light, acoustics, etc., as well as in astronomy, chemistry, geodesy and the measurement of time.

The application of science to industry is illustrated by extensive collections of machinery and apparatus relating to Mech. Engineering, Railway Engineering, Road Transport, including Mech. Transport of all kinds; Aeronautics, Ship and Boat Construction, Marine Engines, Elect. Engineering, including all forms of Telegraphy, Telephony and Radio-communication. Many groups of Industrial Engineering are also represented, as: Textile Machinery, Hand Tools and Machine Tools, Printing, Glass Technology, Agric. Implements and Machinery, as well

as Mining, Metallurgy, and Ore Dressing. A special Children's Gallery is also included.

The number of visitors during 1938 was 1,137,635.

The Science Library which forms part of the Museum contains 275,000 vols. relating to all depts. of science, pure and applied, except medical science, including 15,000 scientific periodicals. These may be issued on loan to scientific institutions and industrial organizations for the use of their members on requisition. The information service is based on a collection of 40,000,000 bibliographical references, from which lists of papers on specific subjects are supplied on request. The library is not open on Sundays.

36. HOME OFFICE INDUSTRIAL MUSEUM, 97 Horseferry Rd., Westminster, S.W.1. Director, Sir Duncan Wilson, C.V.O., C.B.E. (H.M.C.I. of Factories). A permanent exhibition of methods, arrangements and appliances for promoting safety, health and welfare of industrial workers. Open free of charge every week-day 10–4. Persons under 18 not admitted except in parties for instructional purposes.

37. THE ROYAL SCOTTISH MUSEUM, Edinburgh, 1. *Technological Department.* The collections illustrate the more important Scottish industries and the sciences upon which those industries are based. Mining, Oil Production, Metallurgy, and Mechanical, Electrical and Civil Engineering, being of primary importance, have received preferential treatment, but other industries of a more specialized nature, such as Shipbuilding, Transport, Aeronautics, Papermaking, Printing, etc., are also illustrated. *Director,* T. Rowatt, O.B.E. *See also* VI. 5 below.

38. THE POST OFFICE RESEARCH STATION, Dollis Hill, London, N.W.2, deals with the development of any matters appertaining to the science of electrical communication and problems arising out of the day-to-day operation of the telephone, telegraph and postal services. Courses of training in the specialized work of the Engineering Dept. are given in the schools attached to the Research Station.

39. LONDON, MIDLAND AND SCOTTISH RAILWAY RESEARCH DEPARTMENT. Director of Scientific Research, Sir Harold Hartley, C.B.E., M.C., M.A., F.R.S. Research Manager, T. M. Herbert, M.A. (Euston Station, N.W.1). The Research Laboratory at Derby comprises the following: A Metallurgical Section, dealing with investigations relating to the selection and behaviour of metals and their manipulation by casting, forging, heat treatment and welding; an Engineering Section, dealing with research on designs and performance of engineering details of machines and structures, aerodynamical problems, etc.; a Textile Section; a Paint Section. Chemical Laboratories are maintained at Derby, Crewe, Horwich, Glasgow and Stonebridge Park. There is also a Physics Section which deals with problems of ventilation, acoustics, refrigeration, etc.

40. NATIONAL INSTITUTE OF INDUSTRIAL PSYCHOLOGY, Aldwych House, Aldwych, London, W.C.2. General Secretary—C. B. Frisby, B.Com.; Hon. Scientific Adviser—C. S. Myers, C.B.E., M.D., Sc.D.,

F.R.S. The Institute is a non-Government body founded in 1921, and controlled by a council of scientists, industrial employers, and Trade Union leaders. It exists to supply psychological and physiological knowledge of the human element in occupational life, its aim being to ensure that energy is applied in the most economical possible way, and not wasted through inefficient methods or unsuitable working conditions. Its scope includes fatigue- and movement-study, and study of the effect on efficiency of different incentive systems, working hours, rest pauses, lighting and ventilation systems, etc.; also study of large-scale organization questions, such as planning, progressing, lay-out, internal transport, and distribution. Investigations are carried out on behalf of industrial firms and research work is conducted in its laboratories.

On its vocational side the Institute also carries out research and applies mental and physical tests to determine the fitness of individuals for particular types of work. Tests are devised and standardized for the use of industrial firms in selecting employees, and in the laboratories of the Institute or in schools individuals are tested and advised on the choice of an occupation.

The Inst., in conjunction with the London School of Economics, gives lectures and practical courses suitable for the requirements of the Academic Diploma in Psychol. of London Univ. It also offers facilities for research in those subjects, and organizes Training Courses for school teachers in the principles and methods of vocational guidance. It organizes courses on the administration of the Binet-Simon tests of intelligence. *Occupational Psychology*, quarterly; *N.I.I.P. News*, monthly; *Ann. Reports*, free on appln. *Special Reports*.

VI. Pure Science.

1. British Museum (Natural History), Cromwell Road, London, S.W.7. Director, C. Forster-Cooper, M.A., Sc.D. Camb., F.R.S. Departments: Zoology, Entomology, Geology (Palæontology), Mineralogy, Botany. In addition to the specimens exhibited in the public galleries, much larger series are contained in the study-collections, which can be consulted or used for purposes of research by duly qualified workers. The function of the Museum is primarily to preserve representatives of the animals and plants (including fossils) of the entire world and of such inorganic natural productions as minerals, rocks and meteorites. The systematic determination, description and classification of this material constitute the principal research-work of the scientific staff (68 members) and other helpers (49). This forms the basis of further scientific research carried on either inside or outside the Museum, such as the study of variation, methods of organic evolution, geographical distribution of animals and plants, correlation of strata, chemical and physical properties of rocks and minerals, study of crystals. All these branches of science may in turn be applied to the solution of practical problems.

Attached to the Museum is an important library of scientific works intended primarily for the use of the staff but also available to a limited extent to students with tickets for the study of the natural history

collections. Information as to the conditions under which students' tickets are issued may be obtained from the Director.

Publications: *Scientific Catalogues and Monographs, etc.; Guide-books, Picture Post-cards, etc.*

2. MUSEUM OF PRACTICAL GEOLOGY. *See* V. 3.

3. SCIENCE MUSEUM. *See* V. 35.

4. NATIONAL MUSEUM OF WALES, Cardiff, South Wales. Founded by Royal Charter in 1907. Contains large and representative collections illustrating the Geology, Botany and Zoology of Wales. It also covers, in the three Departments of Archæology, Folk Culture and Industries, and Art, the pre-history, history and cultural achievement of the Welsh people. Each Department contains a certain amount of comparative material—western European and British Isles. Director: Sir Cyril Fox, Ph.D., V.-P.S.A.

5. THE ROYAL SCOTTISH MUSEUM, Edinburgh, 1. *Art and Ethnographical Department.* The ethnographical collections include specimens illustrating the culture of backward races all over the world. The collections are in two sections, one arranged geographically, the other on the comparative system. A reference library, containing a large number of books and periodicals relating to ethnography, is available for the use of visitors.

Natural History Department. In addition to a wide range of exhibited specimens dealing with most branches of Natural History, the department has large scientific collections of great value. The most famous is the collection of fossil fishes, chiefly from Scotland. There is also a large collection of bird skins, both British and foreign, and an extensive collection of insects. A reference library containing many books on natural history, as well as many current periodicals, is available for visitors.

Geological Department. The Geological collections include a valuable series of rocks, fossils and maps illustrating the status and progress of the geological survey of Scotland; also a fine general collection of minerals and the famous Heddle-Dudgeon collection of Scottish Minerals.

See also V. 37 above.

6. BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Burlington House, Piccadilly, London, W.1. Research Committees of the Association conduct researches and prepare reports. Committees of the Sections and of the Department for the study of the social and international relations of science, consider, *inter alia*, the financing of proposed researches by such Research Committees. The Association administers for this purpose a fund, providing an income of about £350 annually, given by the late Sir James Caird of Dundee in 1912, and certain other special research funds; any surplus from subscriptions in excess of administrative expenses is also devoted to research. Total grants in aid of research normally exceed £850 p.a. The Association welcomes the attendance of University students at its annual meetings, and has a special class of "student membership" at reduced fees for

duly qualified persons. Meeting, 1939, Dundee; 1940, Newcastle. *President*, 1939, Sir Albert Seward, F.R.S.

7. DAVY FARADAY RESEARCH LABORATORY, The Royal Institution, 21 Albemarle Street, London, W.1. The research work of the Royal Institution is now mainly carried on in the Davy Faraday Laboratory, which is housed in a building adjoining the Institution, presented by the late Dr. Ludwig Mond. There is room for about 20 research workers. The laboratories are open to anyone who wishes to carry on researches in connexion with physics and chemistry provided the subject and the worker are approved by the Committee of Management and the accommodation permits. No fees are charged. At the present time, the main subject of investigation is that of the physical properties of organic substances in relation to their structure. *Director*, Sir William Bragg, O.M., K.B.E., M.A., D.Sc., Pres.R.S. Inquiries to be addressed to The General Secretary, Royal Institution.

8. CAMBRIDGE OBSERVATORY, Madingley Road, Cambridge. Every effort is made to give research students facilities for carrying out investigations. Applications should be made to the Director (Sir Arthur S. Eddington, O.M., M.A., D.Sc., F.R.S.).

9. THE SOLAR PHYSICS OBSERVATORY, Madingley Road, Cambridge. The laboratory contains spectroscopic, photometric, and other apparatus for experimental research and many photographic records of spectra. Facilities are offered to research students for carrying out special researches or for taking a share in the regular work of the Observatory. Applications should be made, in writing, in the first instance, to the Director (Prof. F. J. M. Stratton).

10. LONDON UNIVERSITY OBSERVATORY. *See* p. 165.

11. THE SCOTT POLAR RESEARCH INSTITUTE, Lensfield Road, Cambridge. This Institute was founded in 1921 in memory of the late Captain Robert Falcon Scott, C.V.O., R N. The purpose of the Institute is to provide information about, and facilities for research on, polar topics, and to give assistance towards the publication of the results of expeditions. The collections of the Institute include a polar library, maps, photographs and pictures, specimens of travelling equipment, and a collection of original records of past expeditions. Publication: *Polar Record* (Jan. and July). The Inst. is open to the public from 10 A.M.-1 P.M. and (except on Saturdays) from 2-4 P.M. Application should be made to the Director (Prof. F. Debenham, O.B.E., M.A.) for information as to the use of the research rooms.

12. FRANCIS GALTON LABORATORY FOR NATIONAL EUGENICS. *See* p. 146.

VII. MEDICAL.

THE MEDICAL RESEARCH COUNCIL, 38 Old Queen St., Westminster, S.W.1.

(i) Centres 1-4 are under the direction of the Council.

1. THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH, Hampstead, London, N.W.3 (Director: Sir H. H. Dale, C.B.E., M.D., F.R.S.).

This is the central research institute of the Medical Research Council (*see* App. II. 15), and is primarily a place of work for members of the Council's permanent scientific staff. A few well-qualified attached workers can be received by special arrangement to follow approved lines of inquiry. There are no courses of instruction, but periods of research work at the Institute may be accepted for the purposes of higher degrees in the University of London. Research is done under the following heads: (*a*) bio-chemistry and pharmacology; (*b*) experimental pathology, bacteriology, and protistology; (*c*) microscopy and physical methods; and (*d*) biological standards. Parts of the work are done at the associated FARM LABORATORIES at Mill Hill.

2. THE NATIONAL COLLECTION OF TYPE CULTURES (Curator: R. St. John-Brooks, M.D.), at present housed at the Lister Institute, London, S.W.1. Type cultures of pathogenic and other micro-organisms are maintained and researches into systematic and cultural problems undertaken.

3. THE STANDARDS LABORATORY, Oxford (Hon. Director, A. D. Gardner, D.M., F.R.C.S.). The laboratory is maintained for the production of standard diagnostic suspensions and sera for enteric, dysenteric, and some other infections, and for related research work. It is at present placed within the Dunn Institute of Pathology, University of Oxford.

4. THE DUNN NUTRITIONAL LABORATORY, Cambridge (in charge, L. J. Harris, D.Sc., Ph.D.). Maintained by the Council at the University Field Laboratories, Milton Road, for researches into problems of human nutrition, in association with the University departments for the various medical sciences.

(ii) Centres 5-8 are maintained jointly by the Medical Research Council and the institutions within which they are placed.

5. DEPARTMENT OF CLINICAL RESEARCH, University College Hospital Medical School, London, W.C.1 (Director: Sir Thomas Lewis, C.B.E., M.D., D.Sc., F.R.S.). The dept. is engaged in clinical researches, especially into the cardio-vascular system in health and disease. Attached workers may be received by arrangement with the Director.

6. CLINICAL RESEARCH UNIT, Guy's Hospital Medical School, London, S.E.1 (Director: R. T. Grant, M.D., F.R.S.). Attached workers may be received by arrangement with the Director.

7. NEUROLOGICAL RESEARCH UNIT, National Hospital, Queen Square, London, W.C.1 (Director: E. A. Carmichael, M.B., Ch.B., F.R.C.P.). Attached workers may be received by arrangement with the Director.

8. UNIT FOR CLINICAL RESEARCH IN SURGERY, Royal Infirmary, Edinburgh. Director: W. C. Wilson, F.R.C.S.E. Attached workers may be received by arrangement with the Director.

OTHER CENTRES OF MEDICAL RESEARCH AND INFORMATION

9. ROYAL COLLEGE OF SURGEONS, RESEARCH LABORATORIES (Director: J. Beattie, M.D., D.Sc.), form two units, (*a*) the Bernhard

Baron Laboratories, in the College buildings, Lincoln's Inn Fields, London, W.C.2, and (*b*) the Buckston Browne Research Farm, Downe, Kent. The laboratories are equipped for morphological, pathological and experimental work. The researches of the workers are not confined to problems of direct surgical application. In addition to the regular staff and research scholars suitably qualified persons can be accommodated in either of the two units. Applications for laboratory facilities should be addressed to the Director at the College.

10. THE MUSEUM OF THE ROYAL COLLEGE OF SURGEONS, Lincoln's Inn Fields, London, W.C.2, consists of the collection of John Hunter, which was handed over to the care of the College in 1799. The Collection has been added to considerably and now consists of extensive human osteological, anatomical and pathological collections, with comparative pathological and anatomical specimens. The Histological Collection was assembled mainly by Queckett (1853–61). Historical, odontological, and surgical instrument collections are housed in separate rooms. In 1921 the War Office collection of pathological and other specimens was entrusted to the College. The Museum is open to members of the medical profession and to other persons on application to the Conservator (J. Beattie, M.D., D.Sc). Stamped and addressed envelope must be sent.

11. THE WELLCOME RESEARCH INSTITUTION, 183 Euston Road, London, N.W.1 (Tel. No. Euston 4688–9), embraces the Wellcome Bureau of Scientific Research, the Wellcome Entomological Field Laboratories, Claremont, Esher, the Wellcome Physiological Research Laboratories, Langley Court, Beckenham, the Wellcome Chemical Research Laboratories, the Wellcome Museum of Medical Science (*see* below) and the Wellcome Historical Medical Museum (now in process of reorganization). It was founded by Sir Henry Wellcome in 1931 to unite the various research laboratories and museums which had been established by him. The subjects dealt with include the medical and veterinary aspects of bacteriology, immunology, pharmacology, organic chemistry, chemotherapy, biochemistry, pathology, protozoology, helminthology and entomology. Regular teaching is not undertaken, but a limited number of research workers who wish to follow particular lines of investigation may be given accommodation and facilities for carrying out their work in certain of the laboratories. No charge is made, and all material is supplied, unless it is of a very special nature.

Director-in-Chief, C. M. Wenyon, C.M.G., C.B.E., B.Sc., M.B., B.S., F.R.S.

12. THE WELLCOME MUSEUM OF MEDICAL SCIENCE, 183 Euston Road, London, N.W.1 (open Monday to Friday 10 A.M. to 5.30 P.M., Saturday 10 A.M. to 12.30 P.M.), presents a new system of visual teaching. The purpose and plan of the Museum is to give a general survey of human disease from every aspect. The causation, pathology, symptomatology, treatment and prevention of disease are demonstrated by means of pathological specimens, models, paintings, photographs, etc., in such a way that they convey a graphic picture of the more important features. Associated with each disease a short sum-

mary is set forth of the important points; there is also a file containing abstracts with regard to all the more recent work.

The microscopic side of morbid anatomy is dealt with by means of colour photo-micrography, many of the photographs being shown in special illuminated cases. Thus an attempt has been made to provide a continuous demonstration of disease which will fix itself on the attention and memory of those who visit the Museum.

The Museum of Medical Science is open free of charge to all medical men, Health Officers, and students, also to laymen interested in medicine, provided they are introduced by a registered medical practitioner. Teachers of medicine are invited to give demonstrations to their classes in the Museum and special attention is called to its value as a centre for postgraduate study. *Director*, S. H. Daukes, O.B.E., B.A , M.D., D.P.H.

13 THE STRANGEWAYS RESEARCH LABORATORY, Hills Road, Cambridge, is an independent institution mainly devoted to the study of tissue culture *in vitro* and to the application of that technique to biological problems. Work at present in progress includes the cinematography of living cells, investigations on the growth and differentiation of early embryonic tissue, and studies on the effect upon living cells of X-rays and radium.

The Laboratory provides facilities for a limited number of workers who wish to investigate some specific problem involving the tissue culture technique. Further information may be obtained from the Director (H. B. Fell, D.Sc., Ph.D.), Strangeways Research Laboratory, Hills Road, Cambridge. Letters should be marked " via Cherryhinton."

14. THE BUREAU OF HYGIENE AND TROPICAL DISEASES, Keppel Street, Gower Street, London, W.C.1, is under the general control and direction of an honorary Managing Committee appointed by and responsible to the Secretary of State for the Colonies. The Bureau's main function is to collect, from all sources, information regarding hygiene and tropical diseases; to collate, condense, and, where necessary, translate this information, and make it available by means of its two publications, viz. the *Tropical Diseases Bulletin* and *Bulletin of Hygiene*, issued monthly. The Bureau is housed with the London School of Hygiene and Tropical Medicine, and its valuable library is incorporated with that of the School. The joint library contains 26,000 vols., and is open to accredited postgraduate research workers. The Bureau is officially recognized by the Colonial Office as an institution which receives and answers inquiries from the Colonial Empire on matters relating to hygiene and tropical medicine on which information is not locally available. Such inquiries should be addressed to the Director (H. Harold Scott, C.M.G., M.D., F.R.C.P., D.P.H., D.T.M. & H.).

15. THE MUSEUM OF THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE (incorporating the Ross Institute), Keppel St., Gower St., London, W.C.1, is divided into three sections, *i.e.* Tropical Medicine, General Hygiene, and Sanitary Engineering.

The Tropical Medicine Museum deals generally with tropical diseases

and with the subjects of bacteriology, entomology, helminthology and protozoology in their relation to tropical medicine.

The General Hygiene Museum has exhibits relating to foodstuffs, especially milk, and gives a graphic display of the ordinary communicable diseases, including methods for their control. There are also sections dealing with maternity and child welfare, personal hygiene, port health administration, and other branches of hygienic activity.

The Sanitary Engineering Museum embodies an exhibition of water supply, conservancy, town-planning, building construction, sanitary appliances, as well as the more primitive methods of sanitation in the tropics.

16. THE IMPERIAL CANCER RESEARCH FUND, Burton Hole Lane, Mill Hill, N.W.7, is under the direction of the R.C.P. London and the R.C.S. England. It was constituted in 1902 to promote investigations into all matters bearing on the causes, prevention and treatment of cancer and malignant disease. It possesses a Research Laboratory and a staff consisting of the Director (W. E. Gye, M.D., F.R.S.) and 7 scientific assistants. It publishes a general report annually and scientific reports from time to time. Total capital, £315,463.

17. THE INSTITUTE FOR THE SCIENTIFIC TREATMENT OF DELINQUENCY, 8 Portman Street, London, W.1. Among the objects of the Institute are the initiation and promotion of scientific research into the causes and prevention of crime, the establishment of observation centres and clinics for the diagnosis and treatment of delinquents, the securing of cooperation between all bodies engaged in similar work in all parts of the world, and ultimately the promotion of an international organization. Seminars on various aspects of delinquency for probation officers and social workers and a course of training for persons desiring to qualify for the University of London Diploma in Social Studies are provided. Inquiries should be addressed to the General Secretary.

18. LISTER INSTITUTE OF PREVENTIVE MEDICINE. *See* p. 217.

19. THE NUFFIELD INSTITUTE FOR MEDICAL RESEARCH. *See* p. 281.

B. IN THE DOMINIONS, COLONIES AND DEPENDENCIES AND SHANGHAI

CENTRES OF SCIENTIFIC RESEARCH AND INFORMATION

1. CANADA

AGRICULTURE.

NATIONAL RESEARCH COUNCIL. *See infra under* Scientific and Industrial.

DOMINION EXPERIMENTAL FARMS SYSTEM. The main activities of this large branch of the Federal Government service are experimental and research work in almost all fields of agricultural production. The Central Experimental Farm at Ottawa is the administrative head-

quarters, where a large volume of work in many fields is conducted. Further information from the Director (E. S. Archibald, B.A., B.S.A., LL.D., D.Sc.).

There are 32 branch Stations, many of these devoting their sole attention to special regional problems, such as researches in fruit production, ranch improvement, silver fox breeding, horse breeding, tobacco production, and the like, while the balance cover a wider field of investigational problems in two or more agricultural activities. The many specialized Sub-stations deal with urgent regional problems, such as soil drifting, physiological diseases of fruit trees, soil burn outs, cattle hybridization and red water in domestic cattle, and throughout Northern Canada discover the crop-producing possibilities before settlement takes place.

There are also 40 district experiment sub-stations and 15 reclamation and regrassing stations engaged in investigations in connexion with the drought problem in the Prairie Provinces.

Experimental research is divided into 8 divisions: (i) Animal Husbandry; (ii) Cereal investigations and the testing of new varieties as to their suitability throughout Canada; (iii) Horticultural investigations, including researches as to soils, fertilizers and production, and protective measures and the creating and testing of fruits and vegetables in different parts of Canada, and with associate workers a study of physiological disturbances in production, storage and marketing; (iv) Forage Crops investigations—a specialized research station has been established at the Univ. of Saskatchewan to meet the needs of the Prairies in special problems of Elite Stock Seed production, the creation of superior kinds, varieties and strains, etc.; (v) Poultry investigations; (vi) Tobacco experimental work; (vii) Investigations in fibre plants; (viii) Field Husbandry researches—on many Eastern Stations special attention is devoted to the improvement of pastures, while Western range improvement is also directed by this Division.

Officials from these various Divisions and Branch Stations and Laboratories are associated with the National Research Council through its joint and associate committees and different Federal and Provincial Committees towards the solution of specific problems and for the general advancement of agriculture.

Fisheries.

National Research Council. *See infra under* Scientific and Industrial.

Fisheries Research Board of Canada, Ottawa. Fisheries Research conducted under federal authority in Canada is carried on through the Fisheries Research Board of Canada, which is an independent body but under the control of the Minister of Fisheries and is, in effect, the scientific branch of the Department of Fisheries. Four main research centres or stations, and several sub-stations, are operated by the Board, which consists of 2 officers of the Dept. of Fisheries, 4 representatives of the fishing industry, and 9 scientists selected from the staffs of Canadian

Universities. The present chairman is Dr. A. T. Cameron (Univ. of Manitoba), and the honorary secretary is J. J. Cowie (Dept. of Fisheries, Ottawa).

Duly qualified research workers may carry on voluntary investigations into approved problems at these centres from time to time. Two of the stations—one on the Atlantic coast at St. Andrews, New Brunswick (Director, Dr. A. H. Leim), and the other on the Pacific coast at Nanaimo, British Columbia (Director, Dr. W. A. Clemens)—are Fisheries Biological Stations concerned with problems related to the culture, conservation and capture of fish. The other two stations, Fisheries Experimental Stations, carry on investigations and experiments in connexion with the handling, preservation and marketing of fish. One is situated at Halifax, Nova Scotia (Director, Dr. D. B. Finn), and the second at Prince Rupert, B.C. (Director, Dr. N. M. Carter). Under an arrangement made with the Board by the authorities, students of Dalhousie Univ. proceeding to the degree of B.Sc. in Fisheries take part of their course at the Halifax station. Schools of instruction for fishermen and fishery officers have been conducted by the Board at the Halifax station for some years. A sub-station, at Ellerslie, Prince Edward Island, deals with the life history of the Atlantic coast oyster (*Ostrea virginica*), and with commercial oyster culture or "oyster farming." Another Fisheries Experimental Station was established in 1936 at Grand Riviere on the Gaspe Peninsula (Director, Dr. A. Labrie).

Major work recently being carried on by the Board has included study of the effects of refrigeration on fish muscle, improvement of methods of smoking fish, investigation of methods for improving the preparation of fish meals and the purification of fish oils by hydrogenation, study of the vitamin content of the body oils and liver oils of various fish, investigation of industrial uses of fish oil, experiments with both sockeye salmon (*Oncorhynchus nerka*) and pink salmon (*Oncorhynchus gorbuscha*) to test the parent-stream theory and the possibility of improving the runs of "off" years, oceanographic studies on both coasts to ascertain the source and distribution of the silica and phosphate contents of the waters as influencing the growth and distribution of plankton, a survey of the fisheries of the Bay of Fundy, and a similar survey in the south shore of Nova Scotia area. Important work in connexion with oyster history and culture has also been done, and, in cooperation with the Government of British Columbia, the Board is carrying on an intensive study of the Pacific coast pilchard and herring fisheries.

Publications issued by the Board are its *Annual Report, Journal of the Fisheries Research Board of Canada, Progress Reports*, quarterly, and *Bulletins*. An extended summary of the Board's work from year to year is also printed in the Annual Report of the Dept. of Fisheries.

Scientific and Industrial.

National Research Council, Ottawa. This organization was established by the Government of Canada in 1916 to promote the utilization of the natural resources of Canada, to undertake researches with the

object of improving the technical processes of industry, to determine standards and methods of measurement, and to standardize materials used by the government and in industry. The Council consists of 15 members, selected for terms of 3 years, from among men prominent in scientific work in Canadian Universities or in Canadian industry. It meets four times annually. There is a President (Major-General A. G. L. McNaughton), who is appointed for a term of years. He is the chief executive officer and reports directly to the Committee of the Privy Council for Scientific and Industrial Research.

The Government has provided the Council with extensive laboratory facilities at Ottawa, in which the Council at 1 June 1938 had a scientific and technical staff of 181 persons, in addition to which 61 persons were employed directly under committees. In addition to the administration, which is organized much along the lines of a Government department, the internal work of the Council is organized in four technical divisions, Biology and Agriculture, Chemistry, Mechanical Engineering, and Physics and Electrical Engineering. There is also a section on Research Plans and Publications. The biological and agricultural work of the Council has been organized in close cooperation with the Dominion Department of Agriculture. Six joint committees are now active in special fields of agricultural research, with the cooperation of the agricultural colleges and universities. The Division of Chemistry is engaged in research on asbestos, carbon black and other products from natural gas, casein, corrosion, distillation apparatus, plant hormones, starch, laundry, dry cleaning, leather, magnesian products, paints, plant alkaloids, rubber, textiles, etc. The Division of Mechanical Engineering is devoted particularly to aeronautical investigations in a large wind tunnel, to hydraulics research using a model-testing basin, to engine testing and to fire hazard studies. Aeronautical and Surveys Museums have been established. The Division of Physics and Electrical Engineering undertakes investigations in the general field indicated by that title, including heat, light, sound and electrical studies, and also considerable work in metrology. The section on Research Plans and Publications is responsible for a general information service, the National Research Library, publications, and for the general planning of cooperative investigations through committees.

The Council has an extensive system of research and advisory committees, to many of which grants are made for research in university laboratories and elsewhere. The scope of the work undertaken by these committees is indicated by the titles,—aeronautics, asbestos, chemical standards, coal classification, electrical units, engineering standards, field crop diseases, fire hazard testing, forestry, hydraulics, gas, grain, laundry research, leather, magnesian products, market poultry, oceanography, parasitology, potato research, radio, radiology, storage and transportation of food, survey research, smelter smoke, tuberculosis, weeds, and wool.

The Council has since its inception maintained a system of scholarships for postgraduate work in Canadian and foreign universities and up to March 1938 had made 761 such awards to outstanding graduates of Canadian universities.

THE ONTARIO RESEARCH FOUNDATION, 47 Queen's Park, Toronto (*Director*, Dr. H. B. Speakman), was established in 1928 at the instigation of the Prime Minister of the Province. An endowment fund was created from subscriptions made over a period of 5 yrs. from manufacturers, corporations, and private individuals, and from contributions from the Provincial Government on a £ for £ basis. Quarters in Queen's Park were set aside by the Govt. for offices and laboratories. Researches have been carried out for the benefit of industry and agriculture and to develop the natural resources of the Province.

The agricultural staff have continued to study the south-eastern portion of the Province and have published three papers dealing with its physiography, climate and soil. These observations give a comprehensive picture of the fundamental factors affecting crop yields. The most favourable conditions for growing apples have also been studied and visits paid to numerous orchards throughout the Province.

In animal pathology the study of mastitis has continued and microscopic and bacteriological examinations of samples of milk have been made. Further work has been done on parasitic infestation among domesticated and game animals. Foodstuffs infested with grubs have been sent in for examination and methods were suggested for the destruction of the grubs.

The process for the hydrogenation of fish-liver oils, vitamin assays and food spoilage constituted the major portion of the work in the food laboratories. Several new processes were developed which greatly benefited the manufacturers concerned, and new industries were thus started in the Province. In the leather laboratory a process was worked out for shortening the time required to tan chrome leather. Problems such as spew and others common to the leather industry were investigated.

In the textile division fundamental researches are in progress on textile oil, wool shrinkage and silk fibre. The Quality Control Plan has been greatly expanded and now covers various types of fabric. Numerous problems associated with the industry in general have been brought for solution.

Industrial fellowships have been maintained in the chemical division dealing with gas, the production of waxed paper and the manufacture of coloured brick. An analytical laboratory has been established to handle the numerous industrial problems. Individual laboratories are equipped to study paint, paper, ink, ceramics, plastics, etc. Various problems have been solved for metallurgical firms in the Province. Air-conditioning has been studied and equipment tested.

Numerous papers have been published in scientific and trade journals and a report covering the work of the Foundation is issued annually. A monthly Bulletin is also published.

THE FOREST PRODUCTS LABORATORIES of Canada are maintained by the Dominion Forest Service of the Dept. of Mines and Resources. The Labs. were started on a small scale in 1913 in Montreal, but have now expanded to 3 well-equipped units: (i) the *Main Laboratories* at Ottawa, (ii) the *Pulp and Paper Division* at Montreal, working in close

cooperation with the Pulp and Paper Assn. of Canada, (iii) *Branch Laboratory* at Vancouver. The total staff, scientific, executive, and clerical, numbers about 70, over 30 of whom are univ. graduates in science. The Laboratories operate under the following divisions: (*a*) Pulp and Paper, (*b*) Wood Preservation, (*c*) Timber Mechanics, (*d*) Lumber Seasoning, (*e*) Timber Physics, (*f*) Wood Utilization, (*g*) Timber Pathology, (*h*) Markets and Economics, (*i*) Wood Chemistry.

Pulp and paper is now Canada's most important manufactured product, and there is a growing appreciation of the importance of scientific processes in their manufacture. The wood-using industries as a group are among Canada's largest industries, being only exceeded by agriculture and very slightly by mining.

The Laboratories are being increasingly used as a bureau of technical information by the wood-using industries. The data from its own researches or from sources of reference in its library on wood utilization are available. Lists of publications are sent on application, some without charge.

Some of the more important problems studied in 1937 included:

(i) Main Laboratories, Ottawa.

Wood Preservation Division. Fire-retardant treatments; Service tests of treated and untreated timber; Toxicity and resistance to leaching of mixtures of preservative salts; Creosote treatment of spruce; Mine timbers; Creosote treatment of red pine poles at moisture contents of 30, 20 and 15 per cent [illegible] preservative value of creosote produced from western [illegible] of zinc chloride in hemlock ties after nine years' service.

Timber Mechanics Division. Strength of animal glue and glued joints; Strength of structural timbers; Strength of dowelled joints; Veneers and plywood; Efficiency of cement coatings for nails; effect of "rate of loading" on strength tests of timber; Efficiency and strength of timber connectors; Relation between "pendulum" and "drop hammer" impact tests.

Lumber Seasoning Division. Kiln-drying; Air-seasoning studies; Chemical seasoning of eastern Canadian woods.

Timber Physics Division. Variability in wood; Investigation of factors affecting exudation of oleoresin in softwood lumber.

Wood Chemistry Division. Wood distillation; Classification of species according to their resistance to the action of commonly used chemicals; Wood plastics; Effect of immersion in water, kiln-drying and air-seasoning on the resin and soluble carbohydrate content of white and red pines.

Timber Pathology Division. Blue stain in softwoods; Yard sanitation (distribution of mould and staining fungi in the seasoning yard); Relative susceptibility to blue stain and mould of winter-felled summer-sawn wood and summer-sawn lumber green from stump.

Wood Utilization Division. Wood taint in butter boxes; Use of wood for fuel; Use of sawdust for fuel in Eastern Canada.

Markets and Economics Division. Study of existing methods of

utilization of different species, particularly spruce; Possibilities of greater integration of wood-using industries, in relation to the more economic use of raw material.

(ii) Pulp and Paper Division, Montreal, P.Q.

Methods of analysis; Laboratory methods for beating pulps; Permanence of paper; Drainage properties of pulp; Rate of grinding and groundwood quality; Sulphite pulping studies; Action of sulphurous acid on wood; Recovery of sodium bisulphite cooking liquor; Printability of paper; Adsorption of vapour by woods and pulps; Adsorption of electrolytes by wood and pulps; Heat of wetting by liquids of wood and pulps; Dielectric constants of wood and pulps; Equilibria existing in sulphite liquors; Density of wood and pulps; Specific heats of wood and pulp.

(iii) Vancouver Laboratory, Vancouver, B.C.

Timber Mechanics. Effect of rate of growth upon specific gravity and strength of Sitka spruce; Effect of shape of test specimen upon its strength in compression parallel to the grain; Effect of coloration upon the properties of western red cedar and Douglas fir (cooperation of Division of Timber Products); Tests of one-piece and two-piece box ends.

Timber Products. Shipment of lumber (factors affecting quality and moisture content); Air-seasoning of lumber; Kiln-drying of lumber; Moisture content of western red cedar shingles in service and its relation to roof decay; Effect of seasoning on insects injuring lumber (cooperation of Entomological Branch, Department of Agriculture); Application of chemical seasoning to B.C. woods.

Wood Pathology Section. Development of stain and decay in lumber during shipment by water; Effect of kiln-drying upon the sterilization of lumber; Development of decay in lumber cut from logs containing rot.

Outside research workers are admitted to the Laboratories. Inquiries should be addressed to the Superintendent, Forest Products Laboratories, Ottawa.

The Mines and Geology Branch, Department of Mines and Resources, Ottawa, carries on the work of the former Department of Mines. Through its Bureau of Mines and Bureau of Geology and Topography, the branch undertakes scientific technical and other investigations designed to further the development of the mining and metallurgical industries in Canada and publishes reports thereon. It also administers the National Museum of Canada, a natural history museum which carries on anthropological, zoological and botanical investigations.

The Bureau of Mines was formerly the Mines Branch which was created by the Mines and Geology Act, 1907. It carries out field and laboratory investigations of the mineral resources of the Dominion (metallic, non-metallic and fuels), their production, processing, utilization and marketing. In connexion with this work the following laboratories are maintained:

(i) The Ore Dressing and Metallurgical Laboratories, established in

1910, are equipped for research and investigational work on metallic ores, metals and alloys. The ore dressing laboratories are fully equipped for small scale and for continuous pilot plant tests, and have all types of ore testing facilities and standard ore testing equipment. A bulk sampling plant with a capacity up to four tons per hour is operated. There is also a mineragraphic laboratory completely equipped for microscopic, microphotographic and spectrographic examinations and research.

Continuous runs can be made in connexion with the gravity, magnetic and flotation concentration of ores, with cyanidation of gold and silver ores and on other hydrometallurgical tests. Research laboratories are provided for special research in ore dressing and metallurgy.

Physical metallurgical laboratories are equipped for large and small scale electric furnace work, and include two arc type, one combination arc and resistance type, and two high-frequency induction type furnaces. There is also a heat treating laboratory of commercial proportions and fully equipped mechanical and metallographic laboratories. For sintering, roasting and similar investigations, a Dwight-Lloyd sintering machine, a Herreshoff furnace, rotary kiln and muffle type roasting furnace are provided.

Fully equipped mechanical testing and metallographic laboratories are provided.

(ii) The Industrial Minerals Laboratories are equipped for research and investigational work on problems of production and utilization of industrial minerals, and in its Industrial Minerals Milling Laboratory investigations connected with crushing, grinding and purification of industrial minerals are carried on.

The Ceramics Laboratories are equipped for the testing of clays, shales and other ceramic raw materials and conducting of investigations pertaining to the technology of the clayworking industries.

The Road Materials Laboratories are equipped for the testing of rocks and gravels for road construction and maintenance and studying problems connected with their utilization for such purposes.

In the Milling and Ceramics Laboratories, operations are conducted on full plant scale, as well as small and semi-commercial scale.

(iii) The Fuel Research Laboratories, established in 1910, are equipped for research and investigational work on the chemical and physical properties of fuels and their utilization. The investigations into solid fuels include a chemical and physical survey of coal seams *in situ*.

In addition to chemical laboratories and large scale research apparatus, a commercial by-product recovery coke plant, experimental domestic heating plant, commercial-scale pulverized fuel steam-generating plant, large scale coal washing plant, and continuous scale high pressure hydrogenation installation are maintained.

The work is organized in the following sections: (1) Combustion engineering; (2) Coal carbonization, preparation and briquetting; (3) Oil shale and bitumen; (4) High pressure hydrogenation; (5) Oils, natural gas and mine air analyses; (6) Solid fuels analyses.

The Bureau of Geology and Topography is an expansion of the Geo-

logical Survey of Canada which was founded in 1842 and ranks as one of the oldest institutions of its kind in the world. The Bureau is organized in four divisions, the Geological Survey, the Topographical Survey, the Development Division, and the Drafting and Reproducing Division, whose functions are briefly as follows :

The Geological Survey prosecutes, in the field and office, studies of Canadian geology primarily intended to promote the discovery and development of the mineral and underground water resources, to afford a geological basis for a proper classification of soils for agriculture and forestry, to contribute geological information as an aid in the construction of such public works as dams, bridges, tunnels, foundations, etc., and generally to add to the knowledge of the geology of Canada. Mineralogical and Palæontological studies are also carried on in the field and office to assist in promoting the discovery and development of mineral resources.

In the Topographical Survey topographical mapping devised to indicate physical features reflecting geological phenomena in Canada is carried out by both ground and air methods. Topographical mapping is also carried on to assist other bodies in promoting the discovery and development of mineral resources and to aid the development of other natural resources.

The Development Division, in addition to the general executive and administrative work of the Bureau, carries out investigations designed to assist development relating to mineral resources. It also maintains the Library of Air Photographs, which contains prints of all air photographs taken for the Dominion Government, and conducts special studies in the application of aerial photography to the development of Canadian natural resources.

The Drafting and Reproducing Division prepares the geological and topographical and other maps, plans, drawings, etc., by means of which much of the work of the Bureau is presented to the public.

The National Museum of Canada is a natural history museum, which carries on scientific investigations in anthropology, zoology and botany and publishes bulletins on the results. It has excellent collections of ethnological and archæological material from the Canadian Arctic, and a fair collection of anthropological material from other parts of Canada. There is also a good collection of phonograph records of Indian and French Canadian folk songs. The National Herbarium is maintained by the National Museum, which also has large collections of mammal and ornithological material for study and for loan to responsible scientific institutions. Scientists engaged in special lines of investigation are welcomed. To them a library of 70,000 vols. is open.

Inquiries regarding any of the above may be addressed to The Director, Mines and Geology Branch, Department of Mines and Resources, Ottawa.

MEDICAL.

NATIONAL RESEARCH COUNCIL, Ottawa. An Associate Committee

on Medical Research has been established by the Council. The Committee is at present engaged in making a survey of existing facilities for medical research in Canada. The Chairman of the Committee, Sir Frederick G. Banting, K.B.E., M.C., M.D., D.Sc., F.R.C.S., F.R.S. Eng. and Can., is personally conducting the survey, visiting each of the principal centres. Until the results of the survey are made available for study no definite programme of work can be prepared for the Committee.

THE BANTING INSTITUTE FOR MEDICAL RESEARCH, University of Toronto, was opened in Sept. 1930. It is occupied by the following medical depts.—Path., Bact., Neuro-pathol., Med., Surg., Pathological Chem. These depts. carry on teaching, routine laboratory work in connexion with clinical investigation and research work. The Banting and Best Dept. of Medical Research occupies one floor of the Institute, and is devoted entirely to research work.

CONNAUGHT LABORATORIES, University of Toronto, provide facilities for research in preventive medicine and in related fields, and for the production and supply of certain sera, vaccines, hormones and other biological preparations that are difficult or costly to produce. Distribution extends throughout Canada and a number of other countries. Farm of over 70 acres. Library. Opportunities for research are offered to suitably qualified investigators.

2. AUSTRALIA

AUSTRALIAN AND NEW ZEALAND ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE. Headquarters: Science House, Gloucester St., Sydney. Founded in 1887 "to give a stronger impulse and a more systematic direction to scientific inquiry, to promote the intercourse of those who cultivate science in different parts of the Commonwealth of Australia, the Dominion of New Zealand, and in other countries, to obtain more general attention to the objects of science, and a removal of any disadvantages of a public kind which may impede its progress." The Association aims at co-operation between the workers in the various branches of science on the one hand, and between the professional scientist and the general public on the other. Meetings are held within the various States and in New Zealand (usually biennially). Last meeting, Canberra, Jan. 1939. Library, 4000 vols., housed by the Council for Scientific and Industrial Research. Publishes Report.

THE NATIONAL RESEARCH COUNCIL was founded in 1921 to represent Australia in the International Council of Scientific Unions (formerly Internat. Research Council), and also serves as a national academy of pure and applied science (all branches). Address: The Hon. Secretary, National Research Council of Australia, Kelvin House, 15 Castlereagh Street, Sydney.

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, 314 Albert St., Melbourne (Chief Executive Officer, Sir David Rivett, K.C.M.G., M.A., D.Sc.). Established by the Science and Industry Research Act, 1926,

and has taken the place of the former Institute of Science and Industry, which was constituted in 1920, and had succeeded a temporary Advisory Council of Science and Industry created in 1916. The Council consists of 3 nominees of the Commonwealth Government, the Chairman of each State Committee constituted by the Act, and other persons co-opted for their scientific knowledge. Its main functions are: (*a*) to carry out scientific researches in connexion with the primary and secondary industries of Australia; (*b*) to train research workers; (*c*) to make grants in aid of pure scientific research; (*d*) to carry out the testing and standardization of scientific instruments and apparatus; (*e*) the establishment of a Bureau of Information for the collection and dissemination of information relating to scientific and technical matters; and (*f*) to act as a means of liaison between the Commonwealth and other countries in matters of scientific research. The Council is now concentrating its efforts mainly on 7 major branches, viz.: (*a*) soil problems, (*b*) plant problems, (*c*) animal problems, (*d*) fisheries problems, (*e*) forest products, (*f*) entomological problems, and (*g*) preservation of foodstuffs, especially cold storage. Divisions of Animal Health and Nutrition, Plant Industry, Soils, Economic Entomology, and Forest Products have been organized. A Section of Food Preservation and Transport and a Section of Fisheries have also been established.

In addition to work in these primary industry fields, the Council is now about to extend its activities to the secondary industries. A capital fund of £250,000 has recently been made available to it for that purpose. In the first place a national standards laboratory will be erected in Sydney and an aeronautical research laboratory in Melbourne.

Publications: *Journal* (quarterly); a series of *Bulletins* and *Pamphlets*, 110 of the former and 73 of the latter already published.

The Council maintains or assists the following *Research Stations*:

Citriculture. A Research Station, established at Griffith Murrumbidgee Irrigation area, N.S.W., in 1924, has an area of 57 acres, and is now owned and financed jointly by the Council and the Water Conservation and Irrigation Commission, N.S.W.

Viticulture. The Council maintains a Research Station at Merbein, near Mildura, formerly under the control of the Mildura Vineyards Protection Board.

Economic Entomology and Plant Industry. Laboratories at Canberra for Economic Entomology and Plant Industry have been erected and equipped. They are designed to allow of their incorporation in future with a central administrative block.

Animal Health. The F. D. McMaster Animal Health Laboratory, established in the grounds of Sydney Univ. from a gift of £20,000 by Sir Frederick McMaster, a pastoralist of "Dalkeith," N.S.W., investigates problems relating mainly to the health of sheep. There is a field station at St. Mary's, about 30 miles from Sydney.

A sheep experimental station—the National Field Station, "Gilruth Plains"—is in course of establishment on an area of 40,000 acres at Cunnamulla, Q., made available by the Queensland Govt.; it is financed by the Australian Wool Board.

A new laboratory, mainly for the investigation of dairy-cattle prob-

lems, is now complete in Melbourne; it is located in the grounds of the Veterinary Research Institute of the Univ. of Melbourne.

Animal Nutrition. A laboratory has been built in the grounds of the University of Adelaide for fundamental work on animal nutrition problems. This work is linked up with field, calorimetrical, and other work at the Waite Agricultural Research Institute (*see below*) and with field stations in various parts of Australia.

Forest Products. A central laboratory has been established at Melbourne, and work on timber seasoning, timber utilization and preservation, and other forest product problems is now actively in progress.

Soils Research. A laboratory erected from a gift to the Univ. of Adelaide by Mr. J. Darling in the grounds of the Waite Agricultural Research Institute, Adelaide, has been equipped and staffed, and is being maintained by the Council as a Soils Research Laboratory.

Food Preservation and Transport. A laboratory for this work has been erected in the abattoir building of the Queensland Meat Industry Board, Brisbane. Investigations are also in progress at the Government Cold Stores, Melbourne, and at certain other places. New central laboratories and experimental cold chambers have now been completed at the Homebush Abattoir of the N.S.W. Meat Industry Commission. They are now the main laboratories of the section.

Radio Research is in the charge of a Radio Research Board of the Council. The work is financed as to three-quarters of its cost by the Postmaster-General's Dept. and as to the balance by the Council.

Fisheries. A fisheries investigation vessel, the "Warreen," is now in commission. Central laboratories for the Fisheries Section are to be erected at Port Hacking, some 18 miles south of Sydney.

The Council is working in close co-operation with the State Government Departments, the Universities, and other institutions. It is also co-operating with the British Dept. of Scientific and Industrial Research, and with similar institutions in other parts of the Empire.

Inquiries to be addressed to the Secretary (G. Lightfoot, M.A.).

THE AUSTRALIAN DAIRY CATTLE RESEARCH ASSOCIATION consists of delegates elected by the various Breeding Societies, through the State branches of the Association, together with veterinarians and others interested in its object. Considerable funds for research have been secured. An investigation into Contagious Abortion has been subsidized and arranged in collaboration with the New South Wales Dept. of Agriculture, and the work is being carried on at the Glenfield Research Station, N.S.W.; the investigation of Tick Fever, etc., in Queensland, in collaboration with the Council for Scientific and Industrial Research, and an extensive investigation into the subject of Bovine Contagious Mammitis in Victoria by the State Branch of the Association in conjunction with the Council for Scientific and Industrial Research. Inquiries to be addressed to the Hon. Secretary, Australian Dairy Cattle Research Association, c/o Royal Agricultural Society of New South Wales, 33 Macquarie Place, Sydney.

COMMONWEALTH SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDI-

CINE (formerly the Australian Institute of Tropical Medicine), Sydney Univ. *See* p. 620.

New South Wales

MARINE BIOLOGICAL STATION, Port Jackson. *See* p. 619.

Queensland

BUREAU OF SUGAR EXPERIMENT STATIONS, BRISBANE. Chief Laboratories and Office at Brisbane. Stations and other laboratories at Meringa (Cairns), Mackay and Bundaberg. Soil research work and breeding, sugar mill technology, entomological investigations in relation to insects injurious to sugar-cane, and pathological investigations into the control of diseases of sugar-cane in Queensland. At present outside research workers are not admitted. Inquiries to be addressed to the Director (H. W. Kerr).

South Australia

THE WAITE AGRICULTURAL RESEARCH INSTITUTE, Adelaide, S. Australia. Under the management of the University of Adelaide. *Director*, Prof. J. A. Prescott. For research in Agric., Agric. Chem., Plant Pathol., Plant Physiol., Entomol. and Bacteriol. Headquarters of the Division of Soils of the Council for Scientific and Industrial Research. The Waite Inst. is carrying out cooperative investigations with the Council for Scientific and Industrial Research on pastures, on oenology, on virus diseases of plants, on tobacco and on various entomological problems. Income, £42,300.

For names of staff, *see* p. 590.

KOONAMORE FIELD LABORATORY is also attached to Adelaide Univ. *See* p. 592.

THE INSTITUTE OF MEDICAL AND VETERINARY SCIENCE, Adelaide (Director, E. Weston Hurst, M.D., D.Sc., M.R.C.P.), was established in 1938 as an independent organization by Act of Parliament. It is governed by a Council of six, consisting of a Chairman, three members of the Board of the Adelaide Hospital and two representatives of the Council of the Univ. of Adelaide. The staff includes a bacteriologist, an assistant bacteriologist, a clinical pathologist, an assistant clinical pathologist, a veterinary pathologist, a biochemist and various research assistants, with an adequate technical and clerical staff. New buildings completed in February 1939 house the Government Laboratory of Bacteriology and Pathology, the depts. of Pathology, Bacteriology and Applied Physiology of the Univ. of Adelaide and a separate modern animal-house. In addition, ample accommodation and modern equipment for research in the fields of bacteriology, human and veterinary pathology, biochemistry and clinical science are provided. The Government makes an annual grant (at present £10,000 p.a.) towards the upkeep of the Institute; in addition, approximately £2000 p.a. is derived from fees for investigations for private practitioners and public bodies. The University contributes materially to the salaries of some

members of the staff and from time to time grants for research are obtained from outside bodies. The building is on hospital ground adjacent to the University campus.

Western Australia

MOUNT BARKER COOPERATIVE LTD., Mount Barker (London Office : Lloyd's Bank Chambers, Henrietta St., Covent Garden, London, W.C.2), started a small experiment station of 8 acres in 1928, one acre planted with year-old trees. The work includes manurial experiments, green manuring, and different methods of planting and cultivation. Another acre of fruit trees was planted for further experiments, including a supply of stocks received from East Malling. The orchard is now coming into bearing and fruit is being marketed. It is also used for instruction to children attending the State school. Outside research workers welcomed.

3. NEW ZEALAND

THE DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Wellington, N.Z., was established in 1926. (Secretary—E. Marsden, C.B.E., M.C., D.Sc.) The New Zealand Council of Scientific and Industrial Research attached to the Department acts in an advisory capacity to the Government on all aspects of research, with the exception of medical research, and, through the Dept., undertakes specific research work. Investigations are proceeding in connexion with the following : Dairying ; Wheat, Flour, and Bread production ; Seeds and Plants ; Soil Survey and Land Utilization ; Noxious Weeds Control ; Mineral Content of Pastures ; Phormium ; Tobacco ; Wool ; Fuel ; Fruit ; Cold Storage ; Leather ; Geophysics ; Standardization ; Radio ; Social Science. Wherever possible the investigations are carried out at already established institutions, such as the four University Colls., the two Agricultural Colls., Cawthron Institute, and the laboratories of the Dept. of Agriculture. Each research fund is under the immediate direction of a Committee representative of the industry contributing towards the cost of the work, and of the Council. Funds for research are secured partly from Government grants, partly from amounts provided by the various industries, and, till recently, from the Empire Marketing Board. The expenditure on research for the financial year 1937–38 was approximately £93,847.

The branches of the Dept. of Scientific and Industrial Research, viz. Dominion Laboratory, Geological Survey Office, Meteorological Office, Dominion Observatory, Christchurch Magnetic Observatory, and Apia Observatory, all undertake a certain amount of research work, and their staffs are available for coordinated investigations.

CAWTHRON INSTITUTE, Nelson, founded 1920, is a privately endowed research Institute, normal income £10,000 p.a. plus grants from the N.Z. primary producers, local bodies, and N.Z. Department of Sci. and Ind. Research. The Institute comprises a technical and industrial museum and research departments in entomology, mycology, chemistry, and agriculture. The main line investigations concern soil surveys, mineral

deficiency ailments of stock, nutrition of fruit trees, biological control of insect pests and noxious weeds, and studies of fungous diseases and their control. *Director*, Sir Theodore Rigg, K.B.E., M.A., M.Sc., F.I.C., F.R.S. N.Z.

THE STATE FOREST SERVICE (address, Box 1, Government Buildings, Wellington, C.1.). Total area of State forests at 31 March 1938, approximately 8,122,000 acres, over 12 per cent of superficial area of the Dominion; area of exotic State forests, 428,000 acres. The local land-use problem is being studied systematically and an initial demonstration area to be known as Rotoehu State Forest has been selected enclosing within its boundaries dairy farming, grazing, tobacco-culture, the growing of exotic forests and the milling and replenishment of indigenous forests. The primarily significant point is the attempt to weld tobacco-culture, with its slack winter season, into a single unit with exotic afforestation, with a busy winter season. Forest-community planning has therefore become a definite administrative object and a 5-yr. programme has been begun with a view to making it a major activity second only to the development of forest management in the kauri forests of North Auckland, the rimu pole-type forests of South Westland and the beech forests of the Dominion. Coincident with this expanded planning effort an active programme of utilization projects has been initiated and a commencement will shortly be made with the construction of sawmills, box-factories and creosoting-plants. These will form the nuclei of a number of integrated forest industries supplying ultimately a complete range of forest products from firewood to pulp and paper manufactures. *Director of Forestry*, A. D. McGavock.

THE DEPARTMENT OF AGRICULTURE, Wellington, C.1, undertakes (1) veterinary research at its Wallaceville Laboratory near Wellington, (2) farm management investigations, (3) chemical investigations of all problems connected with agriculture. Applications from outside research workers to be admitted to the laboratories would be considered and dealt with on their merits.

CANTERBURY AGRICULTURAL COLLEGE, Lincoln. An annual Government grant of £11,500 for research is made to Canterbury Agricultural Coll., and, as a result, investigations are proceeding on wheat and other cereal crops, grasses and pasture plants, soils and manures, animal nutrition and disease, farm economics and wool production. The WHEAT RESEARCH INSTITUTE is established in association with Canterbury Agricultural College.

MASSEY AGRICULTURAL COLLEGE, Palmerston North. The College is a centre for research in problems connected with sheep and wool and the major portion of its activities is concerned with this field of investigation. Among the investigations now being conducted are: Extensive research into breeding problems in sheep, particularly male sterility; the practical and economic aspects of intensive rotational grazing with sheep, an area of 80 acres being used; the factors which influence the seasonal numbers of the internal parasites of sheep. Grass breeding and selection is carried on at the Grasslands Division of the

PLANT RESEARCH BUREAU adjacent to the College. The DAIRY RESEARCH INSTITUTE, the central dairy research organization in the Dominion, is located at the College. By agreement between the bodies concerned, the Institute staff do both research and teaching work. Postgraduate research students are accepted.

UNIVERSITY COLLEGES AT AUCKLAND AND WELLINGTON, CHRISTCHURCH AND DUNEDIN, undertake research work in a number of different subjects. This work is promoted by outside grants, or by funds specially available to each College, or by research scholarships.

4. SOUTH AFRICA

THE SOUTH AFRICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, Kelvin House, corner of Marshall and Hollard Sts., Johannesburg. (All communications to the Asst. General Secretary, P.O. Box 6894.) The objects of the Association are: To promote the intercourse of societies and individuals interested in science in different parts of S. Africa; to obtain a more general attention to the objects of pure and applied science, and the removal of any disadvantages of a public kind which may impede its progress; to give a stronger impulse and a more systematic direction to scientific inquiry and research. Financial assistance in the past has aided the variable star observations of Dr. Roberts, the investigation of the desert plant, *Welwitschia mirabilis*, by the late Prof. Pearson, and a survey of fresh-water fishes of S. Africa by the late Prof. Gilchrist. The annual award of the S. Africa Medal and grant has done much to stimulate competition among investigators and to bring the value of their work prominently before the public. The foundation of the Transvaal Observatory (now the Union Observatory) together with the provision of the 26-inch visual refractor, the Botanic Gardens at Kirstenbosch, the Bureau of Soil Erosion attached to the Dept. of Agriculture, and the better economic exploitation of marine resources were the outcome of its recommendations. A Committee has been appointed to collect authentic data of the early history of scientific endeavour and industrial achievement in S. Africa. By means of symposia which receive press publicity, the Association is attempting to further public interest in science.

THE NATIONAL RESEARCH COUNCIL AND BOARD OF THE UNION OF SOUTH AFRICA, P.O. Box 7137, Johannesburg, into which the former Research Grant Board has now merged, began to function in April 1938. The principal functions of the new organization are to advise the Government generally regarding the encouragement of research in the Union and to administer all Government and other grants in aid of research. It is also the body through which the Union of South Africa is affiliated to the International Research Council. Report covering the period 1918–35 was published in 1936.

For particulars of Research Funds and Scholarships, *see* Appendix II. 23.

STELLENBOSCH UNIV., DEPT. OF POMOLOGY, for study of deciduous

and citrus fruit trees. The systematic study of varieties, survey of farming conditions, and root stock investigations.

Viticultural Dept. for studies in wine and spirit production, table grapes, raisins, etc., new grape varieties, different methods of trellising and pruning, interrelation of stock and scion, etc.

THE EMPIRE COTTON GROWING CORPORATION, King's Buildings, Dean Stanley St., Millbank, London, S.W.1, maintains an Experiment Station for plant breeding, plant physiology, and the investigation of methods of control of insect pests in connexion with cotton-growing at Barberton, Eastern Transvaal. Director—F. R. Parnell, M.A. Camb. The Station is equipped with new laboratories and an experimental farm. There is also a Cotton Experiment Station at Magut, near Vryheid, Natal, and another in Swaziland.

THE GOVERNMENT OF SOUTHERN RHODESIA AND THE EMPIRE COTTON GROWING CORPORATION maintain jointly a Cotton Experiment Station at Gatooma (Cotton Specialist—G. S. Cameron, M.C., B.Sc.; Chief Plant Breeder—J. E. Peat, B.Sc.), the principal activities of which are the breeding of improved strains of cotton and the investigation of possible means of control of insect pests.

THE GOVERNMENT OF NYASALAND AND THE EMPIRE COTTON GROWING CORPORATION maintain jointly a Cotton Experiment Station at Domira Bay under the direction of H. C. Ducker, B.Sc. The work at the Station centres round the breeding of improved strains of cotton and the investigation of means of controlling cotton insect pests.

TOBACCO RESEARCH STATION, Trelawney, Southern Rhodesia. Established by Government and directly controlled since 15 July 1938 by a corporate statutory body known as the Tobacco Research Board. The Board consists of two officials of the Dept. of Agriculture, two growers and two buyers' representatives. Chairman, C. K. Brain, M.A., D.Sc. The Station, which is about 65 miles north-west of Salisbury, is fully equipped for all types of investigations and experimental work on the growing and curing of flue cured tobacco of S. Rhodesian origin. Research Staff: Tobacco Research Officer, Plant Breeder, Plant Physiologist, Plant Pathologist, Chemist and Biologist. Officer in Charge: H. F. Ellis, M.Sc.

Citrus research in S. Rhodesia is conducted by a special technical staff of the British South Africa Company on their Mazoe Citrus Estate. Director: W. J. Hall, M.C., Ph.D., D.Sc., A.R.C.S.

VETERINARY RESEARCH LABORATORY, Onderstepoort, Transvaal (Director—Dr. P. J. du Toit), is amongst the largest Veterinary Research institutions in the Empire. The staff includes about 50 professional officers. The most important subjects of research comprise protozoal, virus, and bacterial diseases, helminthology, entomology, poisonous plants, the pathology of these diseases and special pathological problems, mineral metabolism, and other nutritional problems, sterility in cattle and sheep, and other obstetrical and physiological problems. A number of vaccines and remedies are prepared and issued on a large scale. Moreover, a considerable amount of diagnostic work for

stock farmers is done. Publication: *Onderstepoort Journal of Veterinary Science and Animal Industry* (quarterly, 5s.; overseas postage 1s. extra), pubd. by the Govt. Printer, Pretoria.

The Faculty of Veterinary Science of the Univ. of Pretoria associated with the training of veterinarians in the Union has been incorporated in the activities of the Research Laboratory at Onderstepoort.

Inquiries should be addressed to the Director of Veterinary Services, P.O. Onderstepoort. (Telegraphic Address—" Microbe," Pretoria.)

FOREST RESEARCH STATION, Deepwalls, Knysna, C.P., maintained by the Union Forest Department for the study of various ecological and biological features of the indigenous forests, the rate of growth of natural regeneration and of plants set out in forests under varying degrees of canopy and kinds of site.

LOW TEMPERATURE RESEARCH LABORATORY, Cape Town. Established in 1926 by the Union Department of Agriculture as a section of the Division of Plant Industry for investigations into the storage and transportation of perishable products. Close contact is maintained with the Low Temperature Research Station, Cambridge, and other Dominion research workers. Inquiries to be addressed to the Superintendent (Mr. Rees Davies), Dept. of Agriculture, P.O. Box 3, Cape Town.

THE FUEL RESEARCH INSTITUTE OF SOUTH AFRICA, Lynnwood Road, Pretoria. Postal Address—P.O. Box 217. Telegrams, " Furesbo." Director—Dr. J. C. Vogel, D.Sc., Dipl. Ing. Established by Union Government Act No. 36 of 1930 (later amended by Act No. 2 of 1933). The Institute grades all coals destined for export through or bunkering at South African ports. Research work includes the detailed investigation of the chemical and physical properties of South African coals; the influence of local conditions on coal cleaning and coal processing methods; the production of liquid and gaseous fuels from coal, lignite and oil shale; the combustion characteristics of local coals; the production of coke and coal by-products; the sampling of coal, and such other fuel problems of South African interest as, from time to time, arise. Publications of the Institute may be obtained from the Secretary, Box 217, Pretoria.

THE SOUTH AFRICAN INSTITUTE FOR MEDICAL RESEARCH, Hospital St., Johannesburg. Postal address—P.O. Box 1038. Telegrams, " Bacteria." Director—Sir Spencer Lister, LL.D., L.R.C.P., M.R.C.S. Researches in pathology include tissue culture *in vitro*; blood grouping in the Bantu race from the ethnological aspect; the ætiology of tumours; studies of the immunity processes in Rous sarcoma; histology of the normal lung; investigations into the pathology and histopathology of silicosis and other pneumonoconioses and a study of the part played by sericite in the causation of these diseases; prophylaxis of the pneumonias and other acute respiratory diseases; comparative immunity of reptiles and the higher animals to bacterial toxins and snake venoms; active and passive immunity to snake venoms; detoxication of snake venoms without destroying their antigenic qualities; the antigenic and other properties of bacterial endotoxins and the use of

these substances in the prophylaxis and treatment of various diseases. Parasitological researches in connexion with trematodes and esp in relation to bilharzial disease, etc. Entomological researches into the bionomics more particularly of anopheline mosquitoes and the fleas of veld rodents. Biochemical investigation in connexion with vitamins, dental caries, calcium metabolism, nutritional survey and studies particularly in relation to the natives of the Union of South Africa, etc. The Institute has extensive serum and vaccine producing departments in connexion with which many research investigations are constantly carried on. Publications either by the Institute (including annual report) or in various medical journals.

5. INDIA

AGRICULTURE AND VETERINARY SCIENCE.

Government of India

THE IMPERIAL COUNCIL OF AGRICULTURAL RESEARCH was constituted by a Resolution of the Govt. of India (May 23, 1929) with the following objects :

(*a*) The promotion, guidance, and co-ordination of agricultural research throughout India.
(*b*) The training of research workers under a scheme of research scholarships or in other ways.
(*c*) The collection and dissemination of information in regard to agricultural and veterinary matters generally.
(*d*) The publication of scientific papers, etc.

[The information contained in this paragraph has been supplied by the Officiating Vice-Chairman of the Council.]

The Govt. of India have so far made, or, subject to the vote of the Central Legislature, have undertaken to make, the following grants to the Research Council.

(*a*) A grant to cover the administrative charges of the Council ;
(*b*) An annual grant for research of five lakhs ;
(*c*) A lump sum grant of 25 lakhs to form the nucleus of a non-lapsing research fund which would enable the Council to make definite provision for research schemes.
(*d*) Grant for sugar research—Rs. 20 lakhs.
(*e*) Grant to meet the cost of Provincial Marketing Schemes—Rs. 10 lakhs @ Rs. 2 lakhs p.a. for a period of 5 yrs.
(*f*) Grant to meet the expenditure required for the repair of the damage done by the earthquake of January 1934, to the Sugarcane research Station at Mushari in Bihar—Rs. 33,000.
(*g*) A special grant of Rs. 11,36,400 for financing certain approved research schemes of an urgent nature.
(*h*) Special grant for Sugar schemes from Sugar Excise Fund—Rs. 2,50,000.
(*i*) Grant for Cold Storage scheme—Rs. 1,00,000.

(*j*) Grant for Agricultural and Veterinary Survey in Coorg—Rs. 4000.
(*k*) Special grant for Sugar Research—Rs. 3,500,000 (received during 1938–39).

The Governing Body is a non-technical body presided over by the Hon. Member of the Viceroy's Council in charge of the portfolio of agriculture, and including as members the 11 Ministers of Agriculture in the provinces, 3 representatives of the Central Legislature, 2 representatives of Commerce, 2 representatives of the Advisory Board, and such addnl. representatives as the Governor-General in Council may appoint, a provision which will allow of the representation of Indian States whenever necessary. The Vice-Chairman of the Governing Body is Vice-Chairman of the Imperial Council of Agric. Research and its principal administrative officer. The Advisory Board is the technical section of the Council, and includes the representatives of provincial agric. and vet. depts., of research institutes, and of assns. organised for research and of univs., a co-operative representative, and addnl. scientific representatives.

The advisory work connected with the Govt. of India's policy towards agricultural matters in general, and those matters such as legislation against diseases and pests and the regulation of imports which are reserved for central legislation and central executive action, is now performed by the Vice-Chairman of the Research Council in consultation with his Expert Advisers. There is the further important development that matters of general importance can be referred by the Govt. of India and by Local Govts. and such Indian States as have joined the new organization to the Imperial Council of Agric. Research as a whole.

The whole-time staff consists of the Vice-Chairman, 3 Expert Advisers, 2 Assistant Experts and the Secretary.

The Council has been registered as a Society under the Societies Act in order that it may possess the financial independence necessary for its work.

The research side of the Society is defined as follows in the Memorandum of Association :

(*a*) To aid, develop, and co-ordinate agricultural and veterinary research in India by promoting scientific (including technological) research, instruction, and experiments in the science, methods, and practice of agriculture (incl. marketing of agric. produce) and by promoting veterinary research and instruction in vet. science by the diffusion of useful information and by such other means as appear calculated to develop agric. and vet. research.
(*b*) To act as a clearing-house of information not only in regard to research, but also in regard to agric. and vet. matters generally.
(*c*) To establish and maintain a research and reference library, in pursuance of the objects of the Society, with reading and writing rooms, and to furnish the same with books, reviews, magazines, newspapers, and other publications.

In addition to its main objective—the fostering of research work—the Council is charged with the dissemination of information and the encouragement of post-graduate training in the various branches of

science and technology as applied to agric. In countries like India, where research workers are necessarily scattered and distances great, there is obviously need for an agric. information bureau, and a start has been made by subscribing to the 8 Imperial Agricultural Bureaux recently established in England on the recommendation of the Imperial Agricultural Conference of 1927 (*see* A. I. *supra*). The Expert Advisers to the Imperial Council of Agric. Research act as official correspondents with the bureaux, but the essence of the new organization is that individual research workers themselves correspond freely with the bureaux. There have already been gratifying indications that the Imperial Council of Agric. Research will receive the whole-hearted support both of agric. workers in India and res. workers in the cognate sciences in their efforts to collect, for supply to other workers in India and for transmission to the Imperial Bureaux, full particulars of work done in India and suggestions for further work to fill in gaps in existing knowledge. The measures necessary to build up in India a more adequate corps of scientific workers for the improvement of Indian agric. are being continuously studied.

The Research Council, though at present mainly financed by the Govt. of India, is free to receive contributions from other sources, and has in fact already received a gift of two lakhs of rupees from the Govt. of H.E.H. the Nizam's Dominions. The Indian States of Mysore, Baroda, Kashmir, Cochin, and Travancore have also each agreed to pay a donation of Rs. 100,000 in 20 annual instalments and the State of Bhopal has agreed to pay a donation of Rs. 50,000 in 20 equal annual instalments. It is hoped that many more contributions from Indian States and private benefactions will be received. The Research Council's power to aid Indian agric. is only limited by its financial resources. It stands in the same relation to all research institutions, whether official or unofficial, central or provincial, and promotes research by grants to existing instns. The research grants so far sanctioned up to the end of the year 1937–38 amount to about Rs. 1,32,03,000 (about £990,200).

Inquiries to be addressed to the Secretary of the Council, New Delhi.

Imperial Agricultural Research Institute, New Delhi. This Institute, which was founded in 1904 from a fund given to the Viceroy, Lord Curzon, by Mr. Henry Phipps, an American philanthropist, was originally located at Pusa in Bihar. But, owing to the damage done by the great earthquake of Jan. 1934, the Government of India decided to transfer the Institute to a site near New Delhi, where it has been reconstructed and has been functioning since Sept. 1, 1936. In its new environment, the Institute has one great advantage, viz. easy accessibility from all parts of India, the lack of which was recognized as a great disability of Pusa. The total area of the new Institute consists of about 800 acres, of which about 300 are under buildings and roads and the rest is agricultural land. There are 6 Sections altogether, 5 of which are at New Delhi, viz. Agricultural, Botanical, Soil Science and Agricultural Chemistry, Mycological, and Entomological. The Sugar-cane Breeding Station is at Coimbatore. At New Delhi there are up-to-date laboratories, scientific library, and herbaria. The research is devoted in

the main to problems of all-India importance. Specialized post-graduate courses extending over 2 yrs. are given in agricultural botany with special reference to plant genetics, biometry and field trials, mycology, entomology, agricultural chemistry with special reference to soil science and sugar-cane breeding and cultivation. Facilities are also afforded for postgraduate training (1 yr.) in farm organization, farm management and general farm engineering. The Institute also supplies information and advice to inquirers. *Director*, Rao Bahadur B. Viswa Nath, F.I.C.

IMPERIAL VETERINARY RESEARCH INSTITUTE, Mukteswar, U.P., conducts research in diseases and nutrition of domestic animals and poultry. Applications from outside research workers to visit the Inst. should be addressed to the Director.

Telegrams—" Vetex," Mukteswar-Kumaun.

THE CENTRAL BOARD OF IRRIGATION consists of all the Chief Engineers (Irrigation) in India. Its object is the exchange of information and experience on irrigation and allied subjects among the Irrigation Departments in India. Attached to the Board are a library and an information bureau. The Board, through its bureau, maintains touch with other bodies having similar interests throughout the world. The Board meets annually in November; the Research Committee meets in February and July and the Executive Committee two or three times a year. The office of the Board, the information bureau and the library are under the direct control of a permanent technical Secretary. Address: The Secretary, Central Board of Irrigation, " Sherwood," Simla, W.C., India.

Assam

TOCKLAI EXPERIMENTAL STATION, Cinnamara P.O. (*Telegrams*— " Sciencita," Cinnamara) is maintained by the Indian Tea Assn. It is specially concerned with the improvement of manufacture, and the study of factors influencing crop-production. Outside research workers not received. The staff includes 3 Chemists, 1 Mycologist, 1 Bacteriologist, 1 Botanist. *Chief Scientific Officer*, P. H. Carpenter, F.I.C.

Indore

INSTITUTE OF PLANT INDUSTRY, Indore. Established 1924. Incorporated 1928 as a Society. Many of the States in Central India and Rajputana are members, giving yearly subscriptions and donations. Indian Central Cotton Committee provided buildings and equipment and make annual grants. Objects: (i) Investigation of all matters relating to the production and improvement of raw cotton in India. (ii) Agricultural development of the territories of the Princes and Chiefs who are members of the Society. (iii) Training of nominees of such Princes and Chiefs and of advanced students nominated by the Indian Central Cotton Committee. Occasionally outside research students are accepted.

It carries on fundamental research on the botany, genetics and agronomy of cotton, and practical plant breeding and cultural improve-

ment on the cotton crop of Malwa and neighbouring areas , also on other crops bound up with the agricultural economy of the areas dealt with. The Director (T. R. Low, I.A.S.) is also Agricultural Adviser to States in Central India and Rajputana.

Madras

There are 3 Fruit Stations, at Coonoor, Burliar, and Kallar. Coonooi is investigating varieties of apples, Japanese plums and persimmons, and miscellaneous sub-tropical fruit, especially in relation to climatic conditions. Burliar and Kallar are attacking the problem of propagating the mangosteen. Outside research workers not admitted Inquiries to be addressed to the Curator, Government Botanic Gardens, Ootacamund.

Mysore

Department of Agriculture, Mysore State. There are extensive research laboratories in Bangalore for Agric. Chem., Plant Breeding, Plant Pathol., Entomol. investigations, and a Veterinary Serum Institute where research is prosecuted into the diseases of cattle and sheep and sera and vaccines for different cattle diseases are prepared for general supply.

Besides these there is a Coffee Experiment Station near Balehonnur in the Kadur district, where work on coffee disease problems is closely coordinated with breeding and grafting work, special areas being set aside for testing disease-resisting powers of selections.

The United Planters Association's (S. India) Coffee Scientific Officer is attached to the Station, and is engaged on phytopathological investigation in coopn. with the Dept. in work on disease resistance in the selections made. Physiol. problems bound up in flower bud production, fruit setting, and fall of partly developed fruit are also being studied, and the root systems of commonly planted types of coffee.

There are a number of other experimental farms for the different crop areas of the State, viz. at Marthur for areca nut and pepper, at Nagenhalli for paddy breeding, at Hebbal for ragi, groundnuts, sugarcane and paddy, at Hunsur for Kar ragi, at Ganadal for sugar-cane, and at Babbur for cotton, jola, cocoanut and sugar-cane. Live Stock farms comprise a Cattle Breeding Station for draught cattle at Ajjampur, sheep farms at Yelachihalli and Hebbal. Treatment of cattle diseases with a view to controlling epidemics is undertaken at numerous Veterinary Dispensaries and through a Mobile Corps of Veterinary Surgeons to deal with outbreaks of cattle epidemics.

All these are under the control of the Director of Agriculture, Bangalore, Mysore State, to whom applns. should be made by investigators wishing to work in the laboratories and farms.

Panjab

Cotton Research Laboratory, Lyallpur. Maintained jointly by the Panjab Government and the Indian Central Cotton Committee. The chief work is the improvement of both indigenous and American varieties of cotton by methods of selection and hybridization. Several improved

strains of these cottons have been evolved. Improvement in cultural operations and ecological and physiological studies of the cotton plant are also a part of the programme. Outside research workers are admitted.

At the Panjab Agricultural College and Research Institute, of which the Cotton Research Laboratory is a part, other cotton research which is financed similarly is also in progress. It deals with insect pests, mycological diseases and physiological and biochemical aspects of cotton growing.

Inquiries to be addressed to the Director of Agriculture, Lahore.

PANJAB AGRICULTURAL COLLEGE AND RESEARCH INSTITUTE, Lyallpur. The College is affiliated to the University of the Panjab for the B.Sc. and M.Sc. degrees in Agriculture. The College and the Institute are divided into the following sections: Agricultural Section, to which is attached a canal-irrigated farm of 429 acres; Botany Section, with a sub-station at Sirsa, where plant breeding work is carried on, and an experimental farm of 150 acres for breeding experiments and seed multiplication; Cereal Section; Oil Seed Section; Fruit Section; Chemical Section; Bacteriological Section; Entomological Section, with two experimental bee farms in the hills and a Fisheries Research Laboratory at Lyallpur and fish farms at Kulu and Madhopur; Cotton Research Station; Engineering Section. Each section has a specialist staff and the laboratories and farms are well equipped for study and research. Some of the sections act as advisory centres.

PANJAB IRRIGATION RESEARCH INSTITUTE, Lahore. Research into all problems connected with irrigation come within the province of the Institute. Statistical investigations have been conducted into the rise in water-table, irrigation, rainfall and changes in the topography of the country, enabling the Government to prepare a drainage policy. The relative importance of salt in the soil profile and that in solution in the subsoil water as causes of salt efflorescence are at present the main subjects of study. Work done at the Institute is accepted by the University of the Panjab as counting towards the period of study required for the M.Sc., Ph.D. and D.Sc. degrees. Communications should be addressed to the Director, E. McKenzie Taylor, M.B.E., Ph.D., D.Sc., F.I.C.

See also under Medicine—Pasteur Inst. of Southern India.

FORESTRY.

Government of India

THE FOREST RESEARCH INSTITUTE, Dehra Dun, U.P. (*President*—L. Mason, M.C., C.I.E., O.B.E., I.F.S., Inspector-Genl. of Forests), the largest in the Empire, if not in the world, opened Nov. 1929. Dehra Dun has been a centre of scientific forest work since 1878. The building is surrounded by 1150 acres of land, part of which is devoted to experimental gardens and plantations. The Silviculture Branch investigates the principal problems presented by the forests of India and coordinates work done throughout the provinces. The Utilization Branch includes sections dealing with timber testing, wood seasoning, wood preservation,

wood technology, wood working, minor forest products, and paper pulp. The Chemical Branch deals largely with minor forest products. The Entomological and Botanical Branches make independent investigations apart from advising the Forest Dept. generally and the Institute in particular. The Timber Development Branch works for the advancement of the use of Indian timbers. Valuable collections are maintained illustrating the scope of forestry in India. There are two forest colleges attached to the Institute ; the senior college for training men for direct appointment as forest officers after remaining temporarily closed for 5 yrs. reopened in May 1938 ; the junior coll. for training forest rangers provides a 2 yrs.' course, including prolonged tours for practical work in the forests of the United Provinces. Inquiries should be addressed to the President, Forest Research Institute and College, Dehra Dun, U.P., India.

INDUSTRIAL.

Government of India

THE INDIAN CENTRAL JUTE COMMITTEE, Council House Street, Calcutta, was constituted by the Government of India in 1936. Its functions include agricultural, technological and economic research and inquiry into all the problems of the jute industry in India The technological research laboratories erected at Tollygunge, Calcutta, at a cost of about £30,000, conduct spinning trials, fibre tests and investigations into the measurable characteristics of the jute fibre and the correlation of these with actual spinning performances, together with investigations into new uses for jute. An agricultural research laboratory is in course of construction at Dacca (East Bengal), Research will be undertaken with a view to obtaining better yields and more suitable varieties of jute. By means of improvements in the agriculture of jute production it is hoped to produce a more uniform crop of higher value to the trade.

Bengal

INDUSTRIAL RESEARCH LABORATORY AND BENGAL TANNING INSTITUTE, Calcutta, maintained by the Bengal Government. The Tanning Institute started in 1919 has a research organization. It now combines research with technical instruction in all aspects of the leather trade, including investigations into local tanstuffs. The Industrial Research Laboratory was built on the same site in 1927. It has two depts., Chemical and Engineering. In the former, researches are conducted which have a bearing on the chemical and chemical engineering problems involved in utilizing the natural resources of the province such as oil seeds for the soap industry, resins for varnishes, shellac, compositions for matches, problems of bleaching and dyeing for textiles, etc. In the Engineering section of the Laboratory, research is confined to the problems of devising improved plant and apparatus for various indigenous industries, such as forged and cast brass and bell metal ware, cutlery, marking and bending of umbrella handles, pottery equipment, and, recently, researches into the problems of

drying rice grain before husking, and soap and other articles, in regard to which drying by solar exposure is difficult during the monsoon. No regular provision for research students is made, but honorary workers are from time to time associated with the work in progress. Training classes for instruction are arranged and are at present held in the improved methods of cottage-scale manufacture of brass and bell-metal ware, cutlery, glazed pottery, umbrellas, and washing soap under the auspices of the Laboratory, and boot, shoe, and leather goods under the Tanning Institute. Industrial inquiries to be addressed to the Director of Industries, Bengal, Calcutta.

WEAVING INSTITUTE, Serampore, also maintained by the Bengal Government. Instruction is given to male and female students on weaving and dyeing cotton, wool and jute on which researches are also carried on.

Bihar

THE INDIAN LAC RESEARCH INSTITUTE, Namkum, Ranchi, Bihar, formerly maintained by the Indian Lac Association for Research, Royal Exchange, Calcutta, is financed by a cess on the exports of shellac from India. It conducts research into the cultivation of lac and the manufacture of shellac.

This research is important, as the competition from synthetic products is on the increase. It falls under two main heads, entomological and chemical. The former has for its objective, first, the investigation of the morphology, bionomics, and physiology of the lac insect, *Laccifer lacca*, and of the insect parasites and predators affecting it; secondly, the investigation of the host trees on which the insect lives, their growth, insect pests, and methods of cultivation and the relationship between insect and host.

The chemical research consists in the investigation of improved methods of manufacture, the standardization of the resulting shellac, and the use of shellac in various industries.

The Amended Lac Cess Act of 1936 provides for the control of the Indian Lac Research Institute by a Committee appointed by the Govt. of India, consisting of two bodies—the Advisory and the Governing. The cess collected is spent in research at the three centres: Namkum, London (London Shellac Research Bureau) and New York (Shellac Importers' Assn.).

The Institute maintains demonstrators who go touring in the districts and give practical demonstrations in improved scientific methods of lac cultivation. A course of free training is provided at the Institute for those interested in the cultivation of lac and the manufacture of shellac. Inquiries to the Director, Indian Lac Research Institute, Namkum, Ranchi, Bihar.

Bombay

TECHNOLOGICAL LABORATORY, Matunga, Bombay (*Director*—Nazir Ahmad, O.B.E., Ph.D., F.Inst.P.), maintained by the Indian Central Cotton Committee. Opened in Dec. 1924; total cost up to 1938, £180,142. Its chief work is the making of spinning tests on cottons grown in all parts of India, and the investigation of fibre properties

affecting the spinning quality of cotton. Recently a Testing House for the trade and the industry has been opened in the Laboratory. The Committee makes grants-in-aid to Provincial Depts. of Agric. for research work on cotton. Outside research workers not admitted as a rule.

United Provinces

HARCOURT BUTLER TECHNOLOGICAL INSTITUTE, Cawnpore, U.P., estd. 1921. This Inst., which is primarily intended to train men for responsible positions in industry, also has facilities for technical research with a view to promote the industrial development of the United Provinces and the country generally. Organized in the following depts.—Oil, and general research. There is also a general workshop, engin. lab., and library. Contact with the requirements of industry is maintained by a Board of Studies and Research and an Advisory Committee. Inquiries to be addressed to the Principal.

[For additional information about many of the foregoing instns., *see* Handbook of Indian Universities, pubd. by the Inter-University Board, Cawnpore, India.]

PURE SCIENCE.

Bengal

THE NATIONAL INSTITUTE OF SCIENCES OF INDIA, 1 Park Street, Calcutta, founded Jan. 7, 1935.

Its most important objects are:

(i) To effect coordination between scientific academies, societies, institutions, and Government scientific departments and services.

(ii) To act as a body of scientists of eminence for the promotion and safeguarding of the interests of scientists in India: and to represent internationally the scientific work of India.

(iii) To act through properly constituted National Committees in which other learned academies and societies will be associated, as the National Research Council of India, for undertaking such scientific work of national and international importance as the Council may be called upon to perform by the public and by Government.

(iv) To publish such proceedings, journals, memoirs and transactions, and other publications as may be found desirable.

President, 1939—Brevet-Colonel R. N. Chopra, C.I.E., M.D., Sc.D., I.M.S.

THE BOSE RESEARCH INSTITUTE, 93 Upper Circular Rd., Calcutta (*Telegrams*—Bostute), founded in 1917 by the late Sir J. C. Bose, F.R.S., who was also its first Director. The present Director is D. M. Bose, M.A., Ph.D. The Institute is concerned with investigations into different branches of knowledge—in Plant Physiology and Genetics, in Agriculture and Biochemistry, in Zoology, in Anthropology, in Nuclear Physics, Cosmic Radiation and Ultra-Sonics. In recognition of its being an international centre of science, it receives an annual grant from the Govt. towards its upkeep.

THE INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE, 210 Bowbazar Street, Calcutta, founded in 1876 by the late Dr. Mahendra Lal Sircar with the object of providing facilities for scientific research in India, is equipped with a Laboratory built and equipped at the expense of the late Maharaja of Vizianagram, Mr. K. Tagore and others, a library, and a lecture hall. Considerable improvements in the Laboratory have been made since then, and it is now well adapted for research in various branches of Physics. The Laboratory is open to qualified workers from all parts of India. Special facilities for work in X-rays, magnetism, spectroscopy and crystallography. The Institute receives a grant of Rs. 18,000 p.a. from the Govt. of India. The Association grants a number of scholarships and stipends. Dr. K. S. Krishnan, Mahendra Lal Sircar Research Professor of Physics of the Assn., is in charge of the laboratories and workshops. The business of the Association is managed by a Committee of Management of which Sir Nilratan Sircar is the President and Prof. J. N. Mukherjee the Honorary Secretary.

Bombay

THE ROYAL INSTITUTE OF SCIENCE, Bombay, is designed to conduct undergraduate teaching side by side with postgraduate research in the Departments of Chemistry (Physical, Inorganic and Organic), Physics, Zoology and Botany. Inquiries should be addressed to the Principal.

Mysore

THE INDIAN INSTITUTE OF SCIENCE, Bangalore (*Telegrams*—Science, Bangalore, Code ABC, 5th edn.), established and originally endowed by the late Sir Dorabji J. Tata and the late Sir Ratan Tata, has as its object the promotion of advanced studies and original research with special regard to the educational and economic interests of India. (For staff, v. p. 818.) Its total income is now approx. Rs. 5.79 lakhs, towards which the Government of India contributes Rs. 1.5 lakhs, the Government of Mysore Rs. 30,000, the Government of Bombay Rs. 5000, the Government of the Central Provinces Rs. 1500, the Government of Travancore Rs. 3000 and the Govt. of Madras Rs. 5000. During recent years the Dept. of Elect. Technology has been greatly enlarged in order to satisfy the demand for qualified elect. engineers caused by electrical developments in India. Director-in-Charge, Rao Bahadur B. Venkatesachar, M.A., F.Inst.P.

MEDICINE.

Medical research is systematically arranged for by the Government of India, either directly or through local Govts., at central or provincial institutions.

Government of India

THE CENTRAL RESEARCH INSTITUTE, Kasauli (*Telegraphic Address*—"Problem," Kasauli), is the Bacteriological Laboratory and Medical Research Institute of the Government of India, situated in the Himalayan foot-hills, about 50 miles from Simla. With it is associated the

Malaria Institute of India, at present financed by the Indian Research Fund Association until such time as it may be taken over by Govt. The buildings of the Central Research Institute were enlarged and remodelled during the years 1933 and 1934, and the Institute is now thoroughly up to date both in regard to accommodation and equipment.

The functions of the Institute are of an All-India character and only incidentally local. It is the headquarters for basic research, inquiries in the field and other medical research activities connected with the Government of India, and is very closely linked with the Indian Research Fund Association, which maintains a publication office for the *Indian Journal of Medical Research* and *Indian Research Memoirs*, a special library for the assistance of Indian Research Fund Assn. workers in the field, and a store at the Institute. The Inst. also manufactures on a large scale anti-typhoid, anti-cholera, and influenza vaccines and antivenomous serum (antivenin), of which, taken together, about 2 million c.c. are issued annually.

General facilities are given to a certain number of persons to study or gain experience in the laboratories, but the chief outside relations are with researches under the Indian Research Fund Assn., now largely responsible for the conduct of medical research in India.

The Director's office edits the *Indian Journal of Medical Research* and the *Indian Research Memoirs*, in which Journal and Memoirs most of the results of medical research work in India are published. The Malaria Institute of India publishes the *Journal of the Malaria Institute of India*, a new series intended for the publication of important malaria papers and memoirs.

Inquiries should be addressed to the Director : Col. J. Taylor, C.I.E., D.S.O., M.D., D.P.H., V.H.S., I.M.S.

Assam

THE KING EDWARD VII. MEMORIAL PASTEUR AND MEDICAL RESEARCH INSTITUTE, Shillong, was built from part of the proceeds of the Memorial Fund to King Edward VII. It was opened in 1917 and is maintained by the Government of Assam. The staff consists of the Director, who is an officer of the Research Dept., a Military Asst. Surgeon, two Civil Sub-Asst. Surgeons, and one or more additional officers engaged from time to time on special Researches.

The Institute is the headquarters of the Assam Medical Research Society formed to investigate communicable diseases in Assam. The Society is at present mainly concerned with researches on malaria. In addition to being the Provincial Pasteur Institute, the Institute prepares all the cholera and T.A.B. vaccine and therapeutic bacteriophage for the Province of Assam, carries out routine examinations for medical officers, and assists the Public Health Dept. with the investigation of epidemics. The laboratories are well equipped and up to date, and accommodation can generally be made for research workers. Inquiries should be addressed to the Director (Lt.-Col. L. A. P. Anderson, M.A., M.D., B.Chir., D.P.H., D.T.M. & H., I.M.S.).

Bombay

THE HAFFKINE INSTITUTE, Parel, Bombay (*Director*—Lt.-Col. S. S. Sokhey, M.A., B.Sc., M.D., I.M.S.; *Asst. Directors*—Lt.-Col. R. C. Wats, M.D., D.P.H., D.T.M., I.M.S.; P. M. Wagle, M.B., D.P.H.), is the principal centre of Plague research in India. Researches are being carried on in biochemistry of tropical diseases, antirabic inoculation, plague. The last one is carried on under the Indian Research Fund Association. The Institute is the seat of manufacture of Haffkine's plague prophylactic for the East. Antirabic vaccine is manufactured at this Institute and distributed to various centres. It also functions as the principal diagnostic centre for the Bombay Presidency and adjacent Indian States. It has a large and well-equipped laboratory, and supplies facilities for research. Applications may be made to the Director.

Madras

THE KING INSTITUTE OF PREVENTIVE MEDICINE, Guindy, Madras, about 7 miles from Madras, founded 1903 and named after Col. W. G. King, C.I.E., I.M.S., Sanitary Commissioner of Madras, who was chiefly responsible for its inception. *Director*—C. G. Pandit, M.B., B.S., Ph.D., D.P.H., D.T.M. At first its main work was the supply of vaccine lymph to the Madras Presidency, but its activities have been greatly extended. They are as follows: (For the whole Presidency) (1) The only lab. for the manufacture of vaccine lymph; (2) the lab. for the manufacture of all bacterial vaccines except plague, and of sterile solutions and culture media; (3) the main general bacteriological lab. for clinical bacteriological and serological diagnostic purposes; (4) the only Govt. Public Health Lab. for the bacteriological and chemical examn. of water supplies, milk, food, etc. (including the lab. for the Government Analyst); (5) a cold storage and distributing centre for sera for human use; (6) a general clinical and public health research lab. and the centre for mobile investigation units (for all the Madras Hospitals except the Gen. Hospl.); (7) the clinical bacteriological lab.

The Inst. covers several acres of ground and consists of a main building for the bacteriological and chemical work, a new subsidiary block for vaccine lymph work, and many outbuildings. It has its own water and gas supply, runs a large cold store and makes its own ice, and has a set of experimental water filters with storage tanks and sand and mechanical filters. Staff: Director, 2 Asst. Directors, 1 Govt. Analyst, 8 Asst. Surgeons, 3 non-med. gazetted Senr. Assts., 6 Junr. Bacteriolog. Chem. and Vaccine Assts., together with 169 lab. attendants and other subordinates—total, 190.

Important work continues to be done by the *Mobile Investigation Units*.

Recent research includes investigations into vaccine lymph, dysentery and cholera bacteriophages, puerperal sepsis, the purification of water, the growth of vaccine virus in tissue cultures and the chorio-allantoic membrane of chick embryo, research on various protozool. diseases and various viruses and experimental Bore Hole Latrines.

Panjab

PASTEUR INSTITUTE OF INDIA, Kasauli. *Telegrams*—" Pasteur." The Institute exists primarily for the provision of antirabic treatment to persons who are at risk owing to bites from, or contact with, rabid animals. It has 128 civil and 49 military treatment centres. Total number of patients in 1937, 20,936 (1404 Europeans and 19,532 Indians). Combined percentage death-rate, 0.43. The Institute is at present carrying on two researches, one on the therapeutic aspect of rabies, and one on the aetiology of typhus fever. Inquiries to be addressed to the Director, R. O. A. Smith, D.T.M., I.M.D.

Southern India

PASTEUR INSTITUTE OF SOUTHERN INDIA, Coonoor. *Director*—Major H. W. Mulligan, M.D., Ch.B., D.Sc. Aberd., D.T.M. Liv , I.M.S. The Association of the Pasteur Institute of Southern India was founded in 1906 and the Institute was opened in 1907. The cost of the original building was defrayed from a sum of Rs. 1 lakh disbursed for the purpose by the late Lord Curzon, the then Viceroy of India, out of a grant placed at his disposal for philanthropic work by the late Mr. Henry Phipps of the United States of America. The objects of the Association are to provide treatment at the central and branch establishments by inoculation against rabies, to spread the knowledge of such treatment among the public and to conduct research work on rabies and other diseases prevalent in Southern India. The Institute is well endowed and the income from investments and from the sale of antirabic vaccine to local Governments is now sufficient to render it self-supporting. In addition to the routine work connected with the manufacture of antirabic vaccine and the treatment of patients, facilities are also available for the conduct of a wide variety of laboratory examinations relating to the diagnosis and treatment of disease. Research work on various subjects—chiefly rabies and protozoal diseases—is being actively pursued. Since 1918 the Nutrition Research Laboratories financed by the Indian Research Fund Association have been housed in the Institute. The facilities for research include accommodation for experimental animals. There is a good medical library and the climate is equable.

THE INDIAN RESEARCH FUND ASSOCIATION, Simla, supported by grants from the Government of India, assists in financing inquiries by all these institutions, and employs not only Indian Medical Service Officers but also workers outside the Services in studying the most urgent tropical disease problems. The objects of the Association are the prosecution and assistance of medical research, the propagation of knowledge and experimental measures generally in connexion with the causation, mode of spread, and prevention of diseases, primarily those of a communicable nature. All proposals for research under the Association are examined by the *Scientific Advisory Board*, which consists of experts chosen from the Research Institutes of the country as well as from the central medical administration. This Committee is thus able

not only to assess the value of proposals, but also to coordinate and prevent overlapping, and it is largely on its recommendations that the grants from the Association are made. Apart from grants-in-aid to teachers, bureaux and publications, it has financed numerous researches, the selected results of which are published quarterly in the *Indian Journal of Medical Research* and its *Memoirs*, and in the *Records of the Malaria Institute of India.*

6. BERMUDA

THE BERMUDA BIOLOGICAL STATION FOR RESEARCH, Inc., St. George's West. Established 1903. In 1929 a grant of £50,000 was received from the Rockefeller Foundation for the purpose of developing large-scale oceanographical investigations to be linked up with those of the newly founded Woods Hole Oceanographical Institution, U.S.A. The Govt. of Bermuda provided a site of 12½ acres with an initial grant of £5500, and makes an annual grant of £400 for 10 yrs. towards its maintenance. In 1936 the Development Commission of Gt. Britain made a grant, including a capital sum for a ship and gear and a recurrent sum for salaries of staff and running expenses, for a 5 yr. study of North Atlantic and Gulf Stream problems.

The main building includes living and working quarters for some 30 workers. The Station possesses a 24-ft. launch, 2 small dories, a diving helmet and other equipment for collecting purposes. There is a reference library. Open to research workers from all countries. Applications must be made on the official form to the Director (J. F. G. Wheeler), at the Station, or to C. O'D. Iselin, Woods Hole Oceanographic Institute, Woods Hole, Mass.

7. BURMA

Under the direction of the AGRICULTURAL DEPARTMENT of the Government of Burma—Secretariat, Rangoon—research is being carried on in the following sections :

Chemical : Analyses mostly in connexion with soils and oil seeds ; investigation of soils on which the " myitpo " disease of paddy occurs ; composition and character of the black cotton soil of the Mandalay area with special reference to its effect on the foundations of buildings—the last two in collaboration with the Forest and Public Works Depts. ; survey of fodders and feeds.

Botany and Plant Breeding : Investigations continued into paddy, butter beans, sesamum, chillies, wheat and pulses.

Mycology : Investigation of diseases of paddy, wheat, chillies and betel vine ; storage of mangosteens, mangoes, and citrus fruits ; cultivation of indigenous mushrooms.

Entomology : Special investigation of Beetle Pest, *Alissonotum impressicolle*, of boll worms on cotton, and of pests on peas and beans in field and store.

Sericulture : Production of superior multivoltine races of worms by hybridization and improvement of mulberry.

Rice : Investigations into the improvement of Burma rice, for quality

and yield, by selection, hybridization, cultivation, and manuring. The principal rice stations are at Hmawbi, Mandalay, Akyab, Myaungmya and Mudon.

Departmental seed farms in 1937–38 numbered 218 and 8440 tons of pure seed were distributed to growers.

Research is also being carried on in sugar-cane, cotton, sesamum, groundnut, pulses, tobacco.

Horticulture : Experiments in methods of propagation and cultivation of indigenous and exotic species of fruits (citrus, mango, mangosteen, litchi, sapota, pineapple, etc.) conducted mainly on upland areas of Hmawbi, Mudon, Myaungmya and Akyab Agric. Stations.

PASTEUR INSTITUTE OF BURMA, Rangoon. (*Telegrams*—" Virus," Rangoon.) *Director*—Lt.-Col. G. C. Maitra, I.M.S. Opened 1915, (1) to carry out antirabic treatment, (2) to act as the Govt. Bacteriological Laboratory for Burma. Routine bacteriol. examns. and antirabic work form the greater part of its activities. Research on subjects for which there are facilities was undertaken in the past through grants usually obtained from the Indian Research Fund Assn. Subjects hitherto studied include beri-beri, leprosy, leptospiroses, antirabic vaccine, bacteriophage in dysentery and cholera, water bacteriology, distribution of tropical typhus in Burma and types of cholera vibrio, diphtheriae and meningococci isolated from cases occurring within the limits of the City of Rangoon. An occasional worker may be given laboratory facilities by arrangement with the Director.

In 1937 (the last complete year for which figures are available) a total of 3823 persons came forward for antirabic treatment from the whole of Burma. Out of those, 2269 underwent the full course of treatment, 553 commenced the treatment but absconded before completion of the course ; 598 were given partial treatment as the biting animals remained alive and well for 10 days after inflicting the bite, and 403 persons were advised that antirabic treatment was unnecessary. The mortality among the treated was 0.13 per cent.

8. CEYLON

RUBBER RESEARCH SCHEME (CEYLON). Established under Government Ordinance for the purpose of conducting research on the production and utilization of raw rubber and financed by the levy of a cess on rubber exports. Income for 1937, Rs. 230,490. The headquarters of the Scheme are at Dartonfield Estate, Agalawatta. The estate (178 acres) was purchased in 1933 and is being utilized for experiments in cultivation, replanting and manufacture. An Experiment Station (105 acres) is established a few miles from the laboratories for testing budgrafts from high yielding Ceylon trees. The scientific staff consists of the Director, 3 Botanists, 1 Chemist, 1 Soils Chemist and 1 Advisory Officer for Smallholdings.

Research on vulcanization problems, conducted at the Imperial Institute, London, by 3 Technical Officers, is jointly financed by the Rubber Research Scheme (Ceylon) and the Rubber Research Institute of Malaya and is controlled by a Committee representing producers and manufac-

turers. Inquiries should be addressed to the Director (T. E. H. O'Brien) Rubber Research Laboratories, Dartonfield, Agalawatta, Ceylon (*Telegrams*—" Rubrs," Agalawatta), or to the Secretary, London Advisory Committee for Rubber Research (Ceylon and Malaya), Imperial Institute, London, S.W.7

A TEA RESEARCH INSTITUTE was estabd. by the Tea Industry in 1926. It is controlled by a Board of Management of 10 members, representative of various interests connected with tea. The Director of Agric. and Colonial Treasurer are also on the Bd. The objects of the Institute are the investigation of all problems relating to tea culture and manufacture and the publication of information relating thereto. Laboratory—St. Coombs, Talawakelle, Ceylon.

9. MALAYA

THE FOREST RESEARCH INSTITUTE, Kepong, Selangor, F.M.S. (Conservator of Forests, Research—T. A. Strong), was opened in 1929 and is maintained by the F.M.S. and the S.S. The building is surrounded by 990 acres of land in the process of being laid out as experimental plantations and arboretum. The Silviculturist advises and coordinates the silvicultural work done by the administrative officers and carries out independent research. The Forest Botanist deals with the botanical work of the Forest Dept., with emphasis on the Dipterocarpaceæ. Ecological work will also form part of his activities in the future. Timber research is in the hands of the Wood Technologist, who deals with wood structure, and the Officer-in-Charge of the Timber Research Laboratory, who is in charge of mechanical testing, durability and wood preservation work.

Education of native subordinates and the local training of officers appointed from Europe and locally is dealt with at the Forest School by the Instructor.

There is a museum illustrating the timbers and minor products of the Peninsula, a collection of wood specimens authenticated by herbarium material, and an extensive herbarium with an unrivalled collection of the family Dipterocarpaceæ.

THE RUBBER RESEARCH INSTITUTE OF MALAYA, Post Office Box 150, Kuala Lumpur, Federated Malay States. (*Telegrams and Cables*—" Searching," Kuala Lumpur.) Estd. 1925 by the Plantation Rubber Industry of Malaya for the investigation of all problems relating to the cultivation of rubber, diseases and pests of rubber, the treatment of latex, and the preparation of raw rubber for the market. The Inst. is managed by a Board consisting of: the Director of the Institute (Chairman); a Financial Officer appointed by the High Commissioner for the Malay States; the Director of Agriculture, S.S. & F.M.S.; 2 members appointed by the High Commissioner for the Malay States to represent smallholders; and 5 other members appointed by the High Commissioner from a panel nominated by Planting Associations. It is financed from the export duty on all raw rubber produced in, and exported from, Malaya, Organization: Director (H. J. Page), Secretary,

Botanical, Chemical, Pathological, and Soils Divisions. Experiment Station (approx. 1332 acres), 16 miles from Kuala Lumpur. Facilities for the admission of private research workers by special arrangement with the Board.

London Advisory Committee for Rubber Research (Ceylon and Malaya), c/o The Imperial Institute, London, S.W.7.

Publications. Journal, Annual Report, Manuals, Special Bulletins, Leaflets and Information Cards.

All communications should be addressed to the Director.

INSTITUTE FOR MEDICAL RESEARCH, Kuala Lumpur (*Director*—A. N. Kingsbury). Scientific staff of 16. Extensions, completed in 1928, include lymph and antirabic vaccine preparations, etc. The compound, about 25 acres, contains animal-houses, insectarium, etc. The Inst. is an integral part of the Malayan Medical Dept., and acts as the laboratory centre for the F.M.S. There is a branch laboratory in Perak. About half the time of the staff is devoted to researches on malaria, tuberculosis, leprosy, tropical typhus, and other diseases. There is a Division of Chemistry which undertakes biochemical and chemical investigations, both research and routine, for the Medical, Police, and other Government Departments. Results are pubd. in *Studies* and *Bulletins*. Space and facilities are available for visiting workers.

10. NEWFOUNDLAND

NEWFOUNDLAND FISHERY RESEARCH INSTITUTE, St. John's. The original Laboratory established in 1931 was destroyed by fire in 1937. A new building is to be erected in which will be provided facilities for the study of problems relating to biology and technology in the fishing industry. All correspondence should be addressed to the Director, P.O. Box 728, St. John's. Publications: Annual Reports, Research, Economic and Service Bulletins.

11. SUDAN

THE WELLCOME TROPICAL RESEARCH LABORATORIES, Gordon Memorial College, Khartoum, founded, equipped, and presented by Dr. Wellcome to the Sudan Govt.

STACK MEDICAL RESEARCH LABORATORIES, now under the ægis of the Sudan Medical Service with Dr. E. S. Horgan, B.A., M.D., B.Ch., B.A.O., as Assistant Director of Laboratory Services in charge.

Purposes: (*a*) To promote the study, bacteriologically, of tropical disorders, esp. the infective diseases of both man and beast peculiar to the Sudan, and to render assistance to the officers of health, and to the clinics of the civil and military hospitals.

(*b*) To aid experimental investigations in poisoning cases by the detection and experimental determination of toxic agents, particularly the obscure potent substances employed by the natives.

(*c*) To carry out chem. and bacteriol. tests in connexion with water, foodstuffs, and health and sanitary matters as may be found desirable.

(*d*) To undertake the testing and assaying of agric., mineral, and other substances of practical interest in the industrial development of the Sudan.

Private research workers admitted to the Labs. from time to time as far as accommodation permits. Application to the Assistant Director of Laboratory Services, Gordon Memorial College, Khartoum.

12. WEST INDIES—Trinidad

THE EMPIRE COTTON GROWING CORPORATION, King's Buildings, Dean Stanley St., Millbank, London, S.W.1, maintains a Research Station for the investigation of fundamental problems relating to the genetics and physiology of the cotton plant, at St. Augustine, Trinidad. Hd. of Genetics Dept., J. B. Hutchinson, M.A.; Hd. of Physiol. Dept., T. G. Mason, M.A., Sc.D., F.R.S. The Station is in close proximity to the *Imperial College of Tropical Agriculture*, where a great deal of research is going on into various aspects of tropical agriculture.

INSTRUCTIONAL AND EXPERIMENTAL SUGAR FACTORY, Imperial College of Tropical Agriculture, v. p. 835.

LOW TEMPERATURE RESEARCH STATION, Imperial College of Tropical Agriculture, for study of bananas, v. p. 835.

13. EAST AFRICA

Nyasaland

THE EMPIRE COTTON GROWING CORPORATION, King's Buildings, Dean Stanley St., Millbank, London, S.W.1, maintain a Cotton Experiment Station at Domira Bay on Lake Nyasa (Chief Officer—H. C. Ducker, B.Sc.), the principal activities of which are the breeding of improved strains suitable to local conditions in different parts of the Protectorate and the investigation of possible means of control of insect pests.

Tanganyika (Mandated) Territory

THE EAST AFRICAN AGRICULTURAL RESEARCH STATION, Amani, *via* Tanga (*Telegrams*—Director, Amani), opened in 1927, is a central research station maintained by the Imperial Government and Governments of the East African Colonies and Dependencies (Kenya, Uganda, Tanganyika Territory, Zanzibar, Nyasaland, N. Rhodesia), and working on fundamental problems connected with East African crops in co-operation with the local Departments of Agriculture. The staff consists of the Director (A. G. G. Hill) and 8 scientific officers, as well as subordinate staff. The Station is situated at an altitude of about 3000 feet in the Usambara Hills in the Tanga Province of the Tanganyika Territory, near Muhesa on the Tanga-Moshi railway. In addition to laboratories, experimental plots, etc., a large estate is attached to the Station, on which, with the aid of a grant from the Colonial Development Fund, trials of coffee, cinchona, Derris, and Aleurites are being made on an

extensive scale. The immediate environment of the Station is heavy tropical forest.

The Station is primarily devoted to the investigation of problems involving "long-range" research, mainly under the heads of plant pathol., soil science, entomol., plant physiol. and plant genetics. It is not a teaching institution, but facilities exist for the accommodation of a limited number of unofficial research workers, on conditions to be arranged with the Director. A good library is maintained, with a wide range of periodicals dealing with agriculture and the related sciences. The Carnegie Corporation of New York have made a capital grant of £10,000 invested in the names of trustees for the permanent endowment of the library.

14. INTERNATIONAL SETTLEMENT, SHANGHAI

HENRY LESTER INSTITUTE OF MEDICAL RESEARCH, Shanghai (*Director*—H. G. Earle, M.A., LL.D., M.B.). Founded in 1928 under a British Board of Trustees (the Lester Trust) by the late Henry Lester of Shanghai.

The work of the Institute is at present organized under three main divisions:

1. *Division of Clinical Research*, in association with the Lester Chinese Hospital.
2. *Division of Physiological Sciences*, including Biochemistry, Pharmacology and Experimental Surgery, under Bernard E. Read, M.S., Ph.D.
3. *Division of Pathological Sciences*, including Bacteriology, Parasitology and Medical Entomology, under R. Cecil Robertson, M.D., M.R.C.P., D.P.H.

Facilities are provided for research in all branches of Medical Science. The staff are recruited partly through the medium of Fellowships and Scholarships open to both Chinese and British candidates. It is hoped that voluntary workers and holders of other Fellowships for medical research will avail themselves of the opportunities presented by the Institute.

All communications to the Director, Henry Lester Inst., 1320 Avenue Rd., Shanghai, from whom full particulars may be obtained, or the London Secretaries, Lester Trust, Empire House, St. Martin's-le-Grand, E.C.1.

IV

PROFESSIONS AND CAREERS FOR WHICH UNIVERSITY STUDIES ARE A FITTING PREPARATION. CONDITIONS OF ENTRY TO OR OF QUALIFICATION FOR PROFESSIONAL DIPLOMAS OR MEMBERSHIP OF PROFESSIONAL INSTITUTIONS

I.

REGULAR COMMISSIONS IN H.M. FORCES FOR UNIVERSITY CANDIDATES

Regulations issued with Army Orders for September 1934 provide for commissions being granted in the Cavalry, R.A., R.E., Royal Corps of Signals, Infantry, Royal Tank Corps, Royal Army Service Corps, Ordnance Mechanical Engineers, R.A.O.C., Army Educational Corps and in the Indian Army. Nominations of graduates who have certain prescribed qualifications are accepted by the Army Council from the following Universities: I. Oxford, Cambridge, London, Edinburgh, Manchester, McGill, Sydney, Western Australia, Toronto; II. Queen's, (Kingston, Ont.), Alberta, British Columbia, New Zealand, Melbourne, Tasmania and the other universities of Great Britain, Northern Ireland, and the Univ. of Dublin. Univs. in Group I. have established courses of military study and their candidates will be commissioned as senior to candidates whose qualifications are in other respects equal. The grant of graduate commissions in the Indian Army is limited to candidates from univs. in Great Britain, Northern Ireland, and the Univ. of Dublin. Commissions of accepted candidates will be antedated approximately 18 months according to qualifications as defined in a prescribed scale.

Among the necessary qualifications are: to be within the age limits 21-24, and to be unmarried.

The regulations giving full details of qualifications—general, academic, military, and physical—are obtainable from the Under-Secretary of State, War Office, London, S.W.1.

For the present the Army Council are prepared to accept 100 candidates a year from the Univs.

Permanent Commissions in the General Duties Branch of R.A.F. Permanent commissions in the General Duties Branch of the R.A.F. are granted to university candidates by the Air Council on the recommendation of their Universities. About 15 vacancies annually are available for candidates irrespective of the subject of their academic studies, and in addition about 5 vacancies annually limited to engin. candidates who have reached the standard of an Hons. degree in that subject. Officers

of the General Duties Branch are taught to fly and undertake flying, technical command, and general administrative duties of the R.A.F. They are given opportunities for widely differing types of study and of specialized employment.

Candidates must be recommended by a University in Great Britain or Northern Ireland and must have completed their degree course by the end of the university term in which they are recommended; they must be unmarried and within the age limits 20-25. Recommended candidates are invited to attend before a selection board which sits at the Air Ministry half yearly (normally in January and July). Candidates from Oxford, Cambridge, or London Univs. are recommended to the Air Ministry only after interview by a Board assembled at their Univ. Selected candidates are granted commissions as pilot officers as from the date on which they join a Royal Air Force Flying Training School, and, subject to the proviso that a commission will not be antedated to a date earlier than an officer's 20th birthday, the commissions will be antedated as so to give seniority as pilot officers from a date 15 months prior to the date of their effective gazettement to the R.A.F. Candidates who have graduated with either first- or second-class honours may also be granted an additional antedate of 6 months regulated by age, as in the case of the general antedate. In consequence of these privileges, candidates will normally become eligible for promotion to flying officer after 6 months. Promotion to the ranks of flight lieutenant and squadron leader is subject to qualification and suitability. Promotion to the rank of flight lieutenant will normally be made on completion of 4 years' seniority as a flying officer, but as a purely temporary measure to meet the requirements created by the R.A.F. expansion, promotion to flight lieutenant will be made on completion of 2 years' Flying Officer service; to the rank of squadron leader by seniority, but weighted by means of antedates so as to give earlier promotion to officers who have acquired specialist, staff and other service qualifications and to officers who are recommended as exceptionally suitable. The subjects of specialization are aeronautical engineering, signals (including wireless telegraphy), armament, photography, navigation and language study. Higher antedates for promotion are given to officers who have obtained advanced qualifications in aeronautical engineering, signals or armament. Promotion to wing commander and group captain and to air ranks is by selection.

Intending applicants should write for information to the Under-Secretary of State at the Air Ministry; applicants from Oxford, Cambridge or London should also get into touch with the University Air Squadron. The conditions under which commissions are granted to graduates of certain recognized Universities in the self-governing Dominions can be obtained from the Government of the appropriate Dominion.

Medical Branch of R.A.F. Permanent commissions are given by selection from among officers holding short service commissions as Medical Officers. The number of permanent commissions is regulated by the number of higher posts so as to insure to all permanent officers a satisfactory career and prospects of promotion. Short service commis-

sions are given for 3 yrs. (extensible with the consent of the Air Council to 5 yrs.) on the recommendation of a selection board which sits at the Air Ministry. Candidates must be fully qualified medical practitioners under 28 (temporarily raised to 31) yrs. of age. Certain advantages are given to candidates holding resident appointments in civil hospitals. Application for further information should be made in writing to: The Under-Secretary of State, Air Ministry, Adastral House, Kingsway, London, W.C.2.

2.

ACCOUNTANTS, ACTUARIES, ETC.

INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES

Incorporated by Royal Charter in 1880. *Address*—Moorgate Place, London, E.C.2.

Membership over 13,000.

The *Preliminary* examn. for persons wishing to become Articled Clerks is held in London, Manchester, Birmingham, and Newcastle upon Tyne usually about the middle of May and November. It embraces: English, Arith., Algebra and Geom., Geog., Hist., a foreign language (Latin, Greek, French, German, Italian, or Spanish), and one of the following—Advanced Maths., Physics, Chem., Geol., Stenography. Exemption is allowed to persons who have passed certain other examns., such as Oxford Responsions, Cambridge Previous, and London Matricn. Minimum age for articles is 16.

The *Intermediate* examn. for Articled Clerks who have served half of their term of service embraces Book-keeping and Accounts (including Partnership and Executorship Accounts and the Accounts of Limited Companies), Auditing and General Commercial Knowledge.

The *Final* examn. may not be taken till 2 yrs. after passing the Interm., but graduates articled for 3 yrs. only may take it 1 yr. after Interm. No person may enter for the Final unless he has served under Articles in England or Wales to a member for 5 yrs. (or, in the case of a graduate of a Univ. of the U.K., for 3 yrs.). It embraces Advanced Book-keeping and Accountancy, including Partnership and Executorship Accounts and the Law relating thereto, Accounts of Limited Companies, Auditing, Genl. Financial Knowledge (incl. Taxation, Costing and Foreign Exchanges), Company Law (incl. Liquidations), the Law Relating to Bankruptcy, Deeds of Arrangement, Receiverships and Trusteeships, Mercantile Law and the Law of Arbitration and Award.

The *Fee* for admission to any of the examns. is 2 gs., and for Certif. of Exemption 1 g. Thirty days' notice is required. Late entries will not be accepted.

No person may be admitted as *Associate* (fee 10 gs.) who has not

passed the Final examn. The minimum age for admission is 21. Any person who, being an Associate, has for 5 yrs. been continuously in practice as a Public Accountant may be admitted as *Fellow* (fee 10 gs.). Distinctive initials: A.C.A., F.C.A.

THE SOCIETY OF INCORPORATED ACCOUNTANTS AND AUDITORS

Incorporated 1885. *Address*—Incorporated Accountants' Hall, Victoria Embankment, London, W.C.2. *Telegrams*—Incorpac, Estrand, London.

Organization. Branches: in Scotland, Ireland, South Africa, Australia and Canada, and 21 District Societies throughout the U.K., Students' Societies are attached to all Branches and District Societies.

Membership. Over 7500, incl. women. Members, designated "Incorporated Accountants," are of two classes—Fellows (F.S.A.A.) and Associates (A.S.A.A.). Fellows must be either Accountants in Public Practice or Accountants to leading Public Bodies. Associates on election must be Accountants in Public Practice, Clerks to Accountants in Public Practice, or Accountants in the service of the Govt. or of Municipal Corporations.

Articles. Articles of Clerkship for 5 yrs. (reducible to 3 yrs. for approved Univ. Graduates) are a condition precedent to sitting for the professional Examns., except in cases of candidates of mature age having 9 yrs. approved *bona fide* professional experience, who are admitted to the Examns. without Articles upon conditions laid down in the special Bye-laws.

Examinations and Fees. The Examns. are three: the *Preliminary* (fee, £2 : 2s.), to be passed before entering into Articles of Clerkship; the *Intermediate* (fee, £2 : 12 : 6), to be taken at the expiration of 2 yrs. of the term of Articles; and the *Final* (fee, £3 : 3s.), to be taken during the last yr. of Articles. Hons. Certifs., Exhibitions, Prizes, and Medals are awarded. The Examns, are held during May and Nov. in London, Manchester, Cardiff, Leeds, Dublin, Belfast, Glasgow, Cape Town, Johannesburg and Durban. Exemption from the Prelim. Examn. (fee, £1 : 11 : 6) obtainable upon production of certain Educational certifs.

Publications. Yearbook, 3s.; *Accountancy,* monthly, 12s. 6d. p.a.; *Examn. Questions,* 1s.

THE LONDON ASSOCIATION OF CERTIFIED ACCOUNTANTS

Founded 1904, and Incorporated 1905. *Address*—50 Bedford Square, London, W.C.1.

The Association has 31 Branches and District Societies and also has Local Representatives in various countries overseas. Each Branch or District Society has a Students' Society or Section attached thereto which enables registered students to participate in and benefit from the educational work of the Assn.

Membership. About 3800, including women. In addition, some 3000 students on the registers. Open to those engaged in accountancy work and only obtainable by examn. and by satisfying the other conditions as to experience and character. Articles are not a necessary condition.

Examinations. Preliminary, Intermediate, and Final, open to both sexes ; held in June and Dec. each yr. The Prelim. Examn. is a test of general education, from which exemption may be obtained by those who have passed certain recognized School Examns. The Intermed. and Final are in professional subjects. The passing of the examns. does not by itself confer the right of admission to membership.

Designation of members " Certified Accountant " ; Fellows, F.L.A.A. Associates, A.L.A.A.

Publications. Yearbook, 3s., post free. *Journal* (monthly), 7d. per copy or 7s. p.a., post free. *Examination Question Papers.* Brochures on matters of professional interest.

CHARTERED ACCOUNTANTS OF SCOTLAND

The Society of Accountants, Edinburgh	incorpd. by Royal Charter	1854.
The Institute of Accountants and Actuaries, Glasgow		1855.
The Society of Accountants, Aberdeen		1867.

Secretary of the General Examining Board—D. Norman Sloan, C.A., 142 St. Vincent St., Glasgow. *Telegrams*—Loan, Glasgow.

A 5-yr. apprenticeship with a Chartered Accountant of Scotland is required (reduced to 4 for graduates of a Univ. in G.B. or Ireland—in the case of Glasgow, Northern Ireland only). Minimum age for apprenticeship, 17 years. Fee of £10 : 10s payable on registration of Indenture of Apprenticeship, to Society or Institute to which apprentice's master belongs. Persons desirous of serving an apprenticeship must pass an examn in Engl., Higher Maths., a language other than English ; and a 4th subject, of the standard of the Scottish Entrance Board's examns. Any person whose claim for Preliminary Qualification is based on Passes other than those of the Scottish Univs. Entrance Examns. or the Leaving Certif. Examns. of the Scottish Education Dept. must produce a Certif. of Fitness from the Scottish Univs. Entrance Board, 81 North St., St. Andrews, such as is normally issued to students about to enter upon a course qualifying for graduation. Such a Certif. will only be accepted by the General Examining Board provided that it is endorsed to the effect that the applicant's qualifications include a Pass in Higher Maths. or a Pass equivalent thereto. The Board's examns. consist of an Intermed. Examn. and a Final Examn. The Intermed. Examn. must be taken in 2 divisions during the period of apprenticeship, fee 1 guinea each division, comprising Arith., Algebra and Statistics, Book-keeping and Accounting, and must be passed during the last 4 years of apprenticeship (except in the case of short period Indentures for which see Syllabus). The Final examn. must be taken in two divisions, the 2nd being taken after the expiry of the apprenticeship. Fees, 1 g. and

2½ gs. Certain classes must be taken at one or other of the local univs. before the apprentice presents himself for either of the two divisions. This examn. embraces appropriate Scottish Law, Book-keeping and Accounting, Insolvency, Trust, Income Tax, Cost, and other Accounts. The examns. are held in May and Dec. Distinctive initials : " C.A." Detailed syllabus to be had from Sec.

THE INSTITUTE OF COST AND WORKS ACCOUNTANTS

Incorporated 1919. *Address*—23 Queen Square, London, W.C.1.

Among the objects are : (1) To improve the professional status of Cost Accountants, and by means of examns. to test the skill and knowledge of persons desiring to enter the profession, and to issue qualifying certifs. ; (2) To improve the facilities at present available to persons entering the profession for acquiring the necessary training and education ; (3) To exercise professional supervision over the members of the Inst., and to frame and establish rules for the observance in all matters pertaining to professional practice ; (4) To hold conferences and meetings for the discussion of professional subjects, and to collect, collate, and publish information of service or interest to members of the profession.

Membership of the Inst. by examn. is granted to candidates who have passed (*a*) the Preliminary, (*b*) the Intermediate, (*c*) the Final Examn. and have had at least 3 yrs.' practical costing experience. Exemption from the Preliminary may be granted to graduates of any Univ. in the U.K. and to persons who have passed certain recognized School examns.

Examination Fees : Preliminary, 1 guinea ; Intermediate, Pts. I. and II., 1 g. each ; Final, 2 gs. *Membership Fees :* Associates, 2 gs. annually ; Fellows, 3 gs. annually.

Distinctive initials : A.C.W.A., F.C.W.A.

THE INSTITUTE OF COMPANY ACCOUNTANTS

Incorporated 1929. *Address*—Company Accountants' House, 11 Portland Rd., Edgbaston, Birmingham.

Examinations qualifying for membership, Prelim. (fee 1 g.), Interm. (fee 2 gs.), Final (fee 3 gs.) are held in London and various provincial centres in May and Nov. The Prelim. Examn. includes English Grammar and Composition, Arith., English Hist. or Geog., Maths.—Algebra and Geom., and one of Latin, French, Sci., Econ. or Spanish. The following certifs. are accepted in lieu of the Prelim. Examn. : (1) A Matricn. Certif. of any British Univ. (2) A School Certif. issued by one of the following bodies provided that a Pass " with credit " has been obtained in Maths. : Oxford and Camb. Schools Examn. Bd., Oxford Delegacy for Local Examns., Camb. Local Examns. Syndicate, Univ. of London (Genl. School Examn.), Jt. Matricn. Bd. of the Univs. of Manc., Liv., Leeds, Sheff. and Birm., Bristol and Durham Univs., Central Welsh Bd. of Interm. Edn. (3) Scottish Edn. Dept. School Leaving Certif. provided that a " pass " has been obtained in Maths.

With the permission of the Institute, Registered Students may and are strongly recommended to attend Univ. courses usually in the Faculty of Commerce for some subjects of the Interm. and Final Examns. A

pass in the internal examn. of the Univ. in those subjects will exempt from the Institute's examns. in the same subjects, subject to satisfactory report concerning students from the Univ. authorities.

Members are of two grades, Fellows (F.I.A.C.) and Associates (A.I.A.C.). Both use the designation " Company Accountant (Inc.)." Certifs. of membership are issued.

Annual subscriptions : Fellows, 4 gs., Associates, 3 gs.

Publications. The Company Accountant ; The Registered Student.

INSTITUTE OF ACTUARIES

Established 1848. Incorporated by Royal Charter, 1884. *Address* —Staple Inn Hall, Holborn, London, W.C.1.

A Prelim. Examn. qualifying for admission to Studentship is held in Jan. and July. The main Examns. are held in May of each year, or at such other times as may be prescribed by the Council. Candidates must give 4 weeks' notice. Applications for examn. outside the U.K. must reach the Hon. Secretaries 10 weeks before the date of the Examns.

The standard of the Maths. in the Preliminary Examn. lies between the standards required in the corresponding subjects (*a*) for the Intermed. Examn. of the Univ. of London and (*b*) for College Entrance Scholarship Examns. at Oxford and Cambridge. Applications for admission to the Prelim. Examn. must be made on the prescribed form to be obtained from the Asst. Secretary.

Candidates for *Associateship* must be " Students " and have passed Pts. I., II., III. and either Pt. IV. or Pt. V. of the Syllabus. Candidates for *Fellowship* must be Students or Associates and pass the 6 Parts of the Syllabus. *Examn. Fees*, 1 to 3 gs. according to Part or portion of Part taken. Distinctive initials : A.I.A., F.I.A.

FACULTY OF ACTUARIES IN SCOTLAND

Incorporated by Royal Charter, 1868. *Address*—23 St. Andrew Square, Edinburgh.

Examinations—Pts. I. (A and B), II., III., IV. (A, B, C).

Anyone desirous of prosecuting his studies in connexion with the Faculty must be enrolled as a student. Application to be made on prescribed form with recommendation of two Fellows and be subject to approval of the Council. The applicant must have passed either : (i.) The Scottish Leaving Certif. Examn., 3 subjects at least, including English and Maths., having been passed on the Higher Standard, *or* a sufficient number of subjects, including Maths. on the Higher Standard, to obtain an attestation of fitness certif. for entry into a Scottish Univ.; or (ii.) the Prelim. Examn. for Scottish Univs. provided that passes in English and Higher Maths. have been obtained ; or (iii.) such other Examns. as in the opinion of the Council are equivalent ; or shall produce such other evidence of general education as may be accepted by the Council from time to time after individual enquiry.

Fees. Students, Entrance, 1 g., annual, 10s. 6d. (1 g. after passing Pt. I. of the Examns.). Fellows (F.F.A.) and Associates, annual subsn., 3 gs ; Examns., 1½ to 3 gs.

THE CHARTERED INSURANCE INSTITUTE

Founded 1897, and incorporated by Royal Charter, 1912. *Address* —20 Aldermanbury, London, E.C.2. Membership consists of the members of Local Insurance Insts., of which there are 39 (with 35 Centres) in the U.K. There are also 12 affiliated Institutes in Toronto (2), Adelaide, Melbourne, Sydney, Perth, Cape Town, Johannesburg, Hobart, Launceston, Montreal, and Wellington. Examns. qualifying for Associateship (A.C.I.I.) and Fellowship (F.C.I.I.) are held in April. Journal published annually.

3.

AGRICULTURE, DAIRYING, HORTICULTURE, ETC.

NATIONAL AGRICULTURAL EXAMINATION BOARD

The Board was appointed by the Royal Agricultural Society of England (16 Bedford Sq., London, W.C.1) and the Highland and Agricultural Society of Scotland (8 Eglinton Crescent, Edinburgh).

An examn. in the *Science and Practice of Agriculture* is held annually for the National Diploma in Agr. (N.D.A.). Qualifications for admission: a certificate from a recognized Agr. College that his attainments in General Bot. and Chem., Geol., Physics, and Mechanics justify the candidate's admission; or evidence of (*a*) having passed the 1st B.Sc. or Interm. examn. in Science of a British Univ.; or (*b*) present a School Certif. awarded by a British Univ. Examn. Board and produce evidence that he has continued his study of Science for at least a year and has obtained a certif. in Physics, Chem., and Bot. at the Higher Certif. examn. of a British Univ. Examn. Bd.; or (*c*) Higher Leaving Certif., including Chem. and Bot., of the Scottish Ed. Dept. Before the first three written papers are taken, candidates must also produce evidence of having resided on a farm for a period (or 2 periods) covering a complete year of farming operations. The subjects of the written papers are Practical Agr.; Farm Machinery and Implements; Land Surveying and Farm Buildings; Agr. Chem., Bot., Book-keeping, and Zool.; Vet. Sc. They may be taken all at one time, or 3, 4, or 5 in one yr. and the remainder at one examn. within next two yrs. *Fee* (non-returnable) for entire examn., 6 gs.

NATIONAL DAIRY EXAMINATION BOARD

The Board consists of representatives of the Royal Agricultural Society of England, the Highland and Agricultural Society of Scotland, and the British Dairy Farmers' Association. *Address*: 16 Bedford Square, London, W.C.1.

An examn. in the *Science and Practice of Dairying* is held annually in England and Scotland for the Nat. Dipl. in Dairying (N.D.D.).

Qualifications for admission: (*a*) a Diploma course in the subjects of the examn. covering two academic yrs., including at least 6 months' instruction in practical dairy work at an approved dairy training institution; also (*b*) at least 6 months on an approved dairy farm (not concurrent with period mentioned under (*a*)). Candidates have the option of: (*a*) Taking the whole Examn. at one time; or (*b*) Taking the Examn in two parts. A candidate taking the Examn. in two parts must take the following subjects at the first sitting: Dairy Farming, Dairy Hygiene, Principles of Dairying, Dairy Factory Management and Dairy Engineering, Practical Cheesemaking and Buttermaking; the remaining 3 papers, Chem. and Physics, Dairy Bacteriol., and Dairy Book-keeping, to be taken at the Examn. in the following year.

The examns. are held in England and in Scotland. A candidate may not enter for the examns. in both countries.

Examn. papers of past years (6d. a set) and a detailed syllabus of subjects of examn. are obtainable from the Secretary.

HORTICULTURE

The examns. for the National Diploma (N.D. Hort.) were established in 1912 by the ROYAL HORTICULTURAL SOCIETY, Vincent Square, London, S.W.1. They are usually held in May and June in London and elsewhere. The *Preliminary* examn. is open to candidates who have received a sufficient general education, who are at least 21 yrs. of age and have served at least 4 yrs. in a public or private garden or nursery, or taken a 4 yrs.' course in an approved Horticultural Institution, or spent 4 yrs. partly in the former and partly in the latter. The *Final* examn. is open to candidates who have passed the preliminary examn. and have been regularly employed in the practice of Horticulture for at least 6 years. The National Certificate in elementary Horticultural Practice was established in 1937 especially for students at Farm Institutes. Other examns. held by the Society every yr. are the Genl. Examn. in Horticulture (for Junrs. and Senrs.); the Teachers' Examn. in School and Cottage Gardening (Prelim. and Advanced), and the Examn. for the British Floral Art Diploma (estab. in 1933).

Fuller particulars and entry forms from The Secretary, Royal Horticultural Society, Vincent Square, London, S.W.1.

NATIONAL POULTRY DIPLOMA EXAMINATION BOARD

This Board, formed by the National Poultry Council, includes representatives of the Ministry of Agriculture, the Dept. of Agr. for Scotland, East Anglian Institute of Agr., Leeds Univ., S.E. Agr. College (Wye), National Institute of Poultry Husbandry, Reading Univ., School of Agr., Cambridge, Midland Agr. Coll., West of Scotland Agr. Coll., Lancashire Co. Farm Inst., Studley Coll., and several other bodies. The Chairman is P. Hedworth Foulkes, B.Sc., F.E.S., late Principal of Harper Adams Agr. College, Newport, Salop. It holds examns. annually, and awards a National Diploma in Poultry Husbandry (N.D.P.)

and a National Certificate in Poultry Practice, which is intended to serve the needs of the smaller instns.

Qualifications for admission to the Diploma examns. (fee, 1st yr., 4 gs.; 2nd yr., 4 gs.):— (i) Training in Poultry Husbandry in a recognized Teaching Instn. for at least 2 years; (ii) Experience on an approved Poultry Farm for at least a year. The subjects of the examn. for the 1st year are Biol., Book-keeping, Poultry Husbandry, Chem. and Physics, and for the 2nd year, Applied Anat., Physiol. and Pathol., Applied Chem., Building Construction, Poultry Husbandry to include Applied Book-keeping (Costings), Practical Test in Poultry Husbandry. Exemption from the 1st year's training and examn. will be granted to: (1) Univ. graduates in Agric., Hortic., or Dairying; (2) Holders of the National Diploma in Agric., Hortic., or Dairying and such other Diplomas in these subjects as may be accepted by the Board. Next examn. 11-18 July 1939. Qualifications for admission to the Certif. examns. (fee 5s.):—Training in Poultry Husbandry for at least one acad. yr. in a recognized Teaching Instn. The subject of the examn. is Poultry Practice (3 papers).

Applications receivable by the Secy., National Poultry Council, 73 Southampton Row, London, W.C.1. Entries close 1 June.

4.

ROYAL INSTITUTE OF BRITISH ARCHITECTS

Founded 1834. Incorporated by Royal Charters in 1837, 1887, 1909 and 1925. *Address*—66 Portland Place, London, W.1. *Telegrams*—Ribazo, Wesdo, London.

Board of Architectural Education

The recommendations of the R.I.B.A. in regard to preliminary and professional education imply a course of professional training in schools occupying at least five years, during the last 2 yrs. of which the student would be working part-time in an architect's office—the training being kept under the supervision of the Board of Architectural Education of the R.I.B.A. or its delegates during the whole term.

Enrolment as Probationer, R.I.B.A. (fee 5 gs.). Candidates must produce evidence of good general education. This evidence, except in very special cases, must be (*a*) a certif. from one of the Schools of Archit. recognized for exemption from the R.I.B.A. examns., to the effect that the applicant has passed, or has received exemption from the School Entrance Examn., or (*b*) a certif. of having passed one of the public examns. recognized by the R.I.B.A. for the Probationership. All applicants must submit drawings showing that they possess some knowledge of Drawing, except (*a*) when the applicant submits a certif. of having passed or received exemption from the Entrance Examn. to one of the Recognized Schools of Archit., or (*b*) when the applicant submits a certif. of having passed one of the recognized public examns. with

credit in Drawing or Art. Candidates who are unable to submit certifs. of general education in accordance with the regns. may make special applications, which will be considered on their merits by the Board of Architectural Education. A list of the Recognized Schools of Archit. is given in the following paragraphs, and particulars regarding them are given in the " Explanatory Pamphlet on Examns.," see below.

The *Intermediate* examn. (fee 6 gs.) for the *Studentship*, R.I.B.A., is held in May or June and Nov., and is open to Probationers of at least 19 yrs. of age. It tests their progress while engaged as pupil, improver, or asst. in an office. Exemption from this examn. (but not from the fee) may be granted to Probationers who have attended the necessary courses at one of the following schools: *United Kingdom and Eire*—Aberdeen Sch. of Arch.; Birmingham Sch. of Arch.; Welsh Sch. of Arch., Cardiff; Edinburgh Coll. of Art; Glasgow Sch. of Arch.; Leeds Sch. of Arch.; Liverpool Sch. of Arch.; Architectural Assocn., London; Univ. of London; Polytechnic, Regent St., London; Manchester Univ.; King's Coll., Univ. of Durham, Newcastle upon Tyne; Sheffield Univ.; R.W.A. Sch. of Arch., Bristol; Cambridge Univ.; Dundee Tech. Coll. and Sch. of Art; Hull Coll. of Art and Crafts; Leicester Coll. of Arts and Crafts; Northern Polytechnic, London; Nottingham Sch. of Arch.; City of Oxford Sch. of Art and Crafts; Municipal Coll., Southend-on-Sea; Univ. Coll., Dublin. *Australia*—Univ. of Adelaide; Gordon Inst. of Technology, Geelong; Melbourne Tech. Coll.; Melbourne Univ.; Sydney Tech. Coll.; Sydney Univ. *Canada*—Manitoba Univ., Winnipeg; McGill Univ., Montreal; Toronto Univ. *India*—Sir J. J. Sch. of Art, Bombay. *New Zealand*—Auckland Univ. Coll. *South Africa*—Witwatersrand Univ., Johannesburg; Cape Town Univ. The R.I.B.A. desires that students within reach of these Univs. and Schools should avail themselves of the opportunities thus afforded rather than submit themselves for the examn. without such recognized training.

The *Final* examn. (fee, 7 gs.) for the *Associateship*, R.I.B.A., is held in July and Dec., and is open to Students of at least 21 yrs. of age. Before admission a candidate must submit for approval designs in answer to 4 problems set by the Board. Exemption from the Final examn. is given to Students who have completed successfully a Dip. or Degree course covering at least 5 yrs. at one of the following schools: *United Kingdom and Eire*—Aberdeen Sch. of Arch.; Birmingham Sch. of Arch.; Welsh Sch. of Arch., Cardiff; Edinburgh Coll. of Art; Glasgow Sch. of Arch.; Leeds Sch. of Arch.; Liverpool Sch. of Arch.; Architectural Assocn., London; London Univ.; Polytechnic, Regent St., London; Manchester Univ.; King's Coll., Univ. of Durham, Newcastle upon Tyne; Sheffield Univ.; Univ. Coll., Dublin. *Australia*—Adelaide Univ.; Melbourne Univ.; Sydney Univ.; Sydney Tech. Coll. *Canada*—Manitoba Univ., Winnipeg; McGill Univ., Montreal; Toronto Univ. *New Zealand*—Auckland Univ. Coll. *South Africa*—Cape Town Univ.; Witwatersrand Univ., Johannesburg.

A *Special Final* examn. (fee, 12 gs.) for the Associateship is held in July and Dec. It is open to Architects in practice and Assts. not less than 30 yrs. of age whose applcns. are approved by the Board.

Candidates for election to the *Licentiate* Class must be British sub-

jects and have been entered on the Register of Registered Architects. They must have attained the age of 30 yrs, and either (*a*) have been engaged as principals for at least 5 successive yrs. in the practice of Arch, or (*b*) have been engaged for at least 10 successive yrs. in the practice or the study of Arch.

A *Licentiate* (L.R.I.B.A.) is a fully qualified corporate member, and is entitled to the designation "Chartered Architect."

Examns. (fee, 3 gs.) qualifying for candidature as *District Surveyor* in London or *Building Surveyor* under local authorities are held periodically.

R.I.B.A. *Allied Societies* and branches thereof exist in 62 towns in the U.K. and Irish Free State; also in Canada at Edmonton, Halifax, Montreal, St. John, Saskatoon, Toronto, Vancouver, Winnipeg; in Australia at Adelaide, Melbourne, Brisbane, Sydney, Hobart, Perth; in New Zealand at Auckland, Christchurch, Dunedin, Hamilton, Invercargill, Napier, Hawera, Wellington; in Africa at Bloemfontein, Cape Town, Durban, Johannesburg, Nairobi, Salisbury; and at Bombay and Singapore.

The Royal Institute of British Architects offers a number of Prizes and Studentships, particulars published annually in the *R.I.B.A. Prizes and Studentships Pamphlet*, price 1s. *See also under British School of Archaeology* at Athens, App. II. 7.

Publications include the *Kalendar*, 7s. 6d. and postage, containing, *inter alia*, a historical sketch, regns. for international and other competitions, and information about the allied societies. *Journal*, in 20 numbers annually, 1s. 6d. each. *Explanatory Pamphlet on Examns.* 1s. and postage. *Past Examns. Questions*, price 1s. and postage.

Registration of Architects in the United Kingdom

The registration of architects is regulated by the Architects Registration Acts, 1931 to 1938.

Under the 1938 Act, which received the Royal Assent on the 29th July, registration is made compulsory. After 1st August 1940, no person may practise or carry on business under any name, style or title containing the word "Architect" unless he has been registered. The use of the title "Architect" by an unregistered person after the date above mentioned will render him liable to a fine not exceeding £50 and a further fine not exceeding £10 for every day on which the offence continues after conviction.

The Architects' Registration Council of the United Kingdom is constituted as laid down in the First Schedule of the 1931 Act and controls the Register of Registered Architects. On the 1st July 1938, there were 12,023 architects on the Register.

Under the 1938 Act practising architects are allowed until the 1st August 1940 in which to make application for registration, and will be entitled to be registered if they can prove to the satisfaction of the Council, on a report of the Admission Committee, that on the 29th July 1938 they were, or had been, practising as architects in the United Kingdom or in the Dominions, Crown Colonies or other of His Majesty's possessions.

Apart from this temporary provision, the qualifications for registration set out in the 1931 Act are:

That the applicant (1) is a member of the Royal Academy or the Royal Scottish Academy, or (2) has passed an examination in architecture which is for the time being recognized by the Council, or (3) possesses such other qualification as may be prescribed by the Council by Regulations approved by the Privy Council.

There are three statutory Bodies appointed annually by the Council, namely, the Board of Architectural Education, the Admission Committee and the Discipline Committee.

5.

THE AUCTIONEERS' AND ESTATE AGENTS' INSTITUTE OF THE UNITED KINGDOM

Founded 1886. *Address*—29 Lincoln's Inn Fields, London, W.C.2

The Preliminary Examn. is held in Jan. and July, and the Interm. and Final Examns. in March and July. The Jan. and March Examns. are held in London and the following centres: Birmingham, Bristol, Cardiff, Manchester, Newcastle upon Tyne, Belfast, but the Prelim. and Professional Examns. in the Summer are held only in London. Entries for the Jan. and March Examns. must reach the Secretary by the end of preceding Oct., and for the Summer Examns. by the end of May.

The Preliminary (fee, 1½ gs.) is for the grade of *Student Member*, the Intermediate (fee, 3 gs.) for the grade of *Licentiate*, and Final (fee 4 gs.), or the Direct Final (fee, 5 gs.), for the grades of *Associate* (A.A.I.) and *Fellow* (F.A.I.).

Changes will be made in the subjects of all the examinations, with effect from January 1940. Particulars of the revised lists of subjects and of the syllabus of each subject can be obtained from the Institute.

The following are brief particulars of the examinations for 1939.

The subjects of the *Preliminary* are English, Arith., Algebra, Geometry, Mod. English Hist., and one only of the following *optional subjects*: French, Latin, German, Modern Geog., Gen. Knowledge. Exempting examns.: Matricn. or School Certif. Examns. of Univs. in the U.K., Prelim. of Law Soc., Chartered Surv. Instn., Inst. C.A., Soc. of Inc. Acctts. and Audtrs. and the Senr. Certif. Examn. of the Coll. of Preceptors.

The *Intermediate* is open to articled clerks in approved offices, ordinary assistants who have had at least a year's professional experience in an approved office, and certain others. Minimum age, 17. The subjects are Book-keeping, Mensuration, Valuation Tables, Law of Landlord and Tenant, Dilapidations and Fixtures, Building Construction, and 1 out of 4 other subjects. *This examination is open to those who have passed or been exempted from the Institute's Preliminary Examn.* unless the candidate is 25 years of age or over, when he is exempt from the

Prelim. but is required to take the 2 additional subjects of English and Arithmetic at the Interm. Examn.

The *Final* is open to persons who have passed or been exempted from the Interm., minimum age of entry 19 ; the *Direct Final*, to persons not less than 30 yrs. of age who fulfil certain conditions as to practical experience. The subjects of the Final are : Valuations, Law of Vendor and Purchaser, Elements of Law of Receiverships and Mortgage, Arbitrations and Compulsory Purchase, Sanitation, Law and Practice of Rating and Taxation, Report Writing, Specifications and Estimates for Repairs to Buildings, and one out of a list of 6 other subjects. The Direct Final, in addition to the 9 subjects of the Ordinary Final Examn., includes also the following from the Interm. list: Book-keeping, Mensuration, and Law of Landlord and Tenant.

Exemptions. A candidate who has passed the Interm. Examn. for the B.Sc. (Estate Management), Univ. of London, will be exempted from certain subjects in the Interm. Examn. If he has passed the Final of the B.Sc. Examn. (Est. Management), or holds the B.A. degree in Estate Management of Cambridge Univ. or the B.A. degree in Agric., together with the Dip. in Rural Econ. of Oxford Univ., he will be exempted from the Interm. and Final Examns. of the Institute entirely. The holder of any other degree of a recognized British Univ. is exempted from the Interm. entirely, but is required to take the *whole* of the ordinary Final Examn.

Minimum age for admission to Student Member grade, 16 ; Licentiate grade, 17 ; Associate grade, 21 ; Fellow, 30. Candidates must also fulfil specified conditions as to practical experience.

Publications : Regns. and Syllabus and particulars of Prizes and *Scholarships* of the value of £20 p.a. for 3 yrs., post free. Last Examn. Questions, Preliminary Examn., 1s. ; Professional Examns., 2s.

THE COLLEGE OF ESTATE MANAGEMENT

Incorporated by Royal Charter. *Address*—35 Lincoln's Inn Fields, London, W.C.2.

Instruction—daytime, evening, and by postal tuition—in preparation for the examns. of the Univ. of London (B.Sc. degree), the Chartered Surveyors' Instn., the Auctioneers' and Estate Agents' Institute, the Land Agents' Society and the Instn. of Civil Engineers. Principal, B. W. Adkin, F.S.I., F.A.I., F.R.E.S., F.R.E.F.S. Three Directors of studies and 50 other Lectrs. and Instrs. A Travelling Scholarship, maximum value £300 for 1 yr., is offered by the College, *see* Appendix II. 3.

THE LAND AGENTS' SOCIETY

Incorporated by Royal Charter. *Address*—21 Lincoln's Inn Fields, London, W.C.2.

Qualifications for (1) Fellowship : Having passed the Society's examns. and being a genuine manager of a certain acreage and having

been professionally employed for at least 5 yrs. (2) Qualified Associateship: Having passed the Society's examns. and having had at least 2 yrs.' practical experience other than as a pupil paying a premium. (3) Associateship: Being a Pupil with a Land Agent who is, or is qualified to be, a Fellow or Qualified Associate.

(Agents, sub-agents and assistants who may be eligible from the practice point of view for Fellowship and Qualified Associateship, except that they have not passed the Society's examns., may be elected to Associateship on giving an undertaking to pass those examns. within stipulated periods.)

Examinations in two Parts annually in March, in London and Edinburgh. Entries up to Dec. 1. Fee for each Part, 4 gs. Part I. comprises Agric. (Elementary), Surveying, Agr. Law (Elem.), Taxation and Charges on Land, Building Constrn., etc., Forestry, Book-keeping. Part II. is an advanced examn. to test practical knowledge. Candidates 35 years of age and over, with seven years' responsible experience, are permitted to sit for Part II. as a Direct Fellowship Examination. Syllabus and previous Examn. Papers may be obtained from Secretary.

Special Committee in charge of Employment Register nominates members previously interviewed for land agency appointments referred to Society.

Journal, published monthly, 2s. 6d. to non-members.

6.

THE INSTITUTE OF BANKERS

Founded 1879. *Address*—11 Birchin Lane, E.C.3. Local centres in Bath, Bedford, Birmingham, Blackpool, Bournemouth, Bradford, Brighton, Bristol, Cambridge, Cardiff, Channel Islands, Chatham, Chester, Cornwall, Derby, Eastbourne, E. Kent, Exeter, Gloucester, Grimsby, Guildford, Huddersfield, Hull, Ipswich, Leeds, Leicester, Lincoln, Liverpool, Middlesbrough, Mid-Lancs., Mid-Wales, Newcastle upon Tyne, Northampton, N. Staffs, N. Wales (2 Centres), Norwich, Nottingham, Oxford, Peterborough, Plymouth, Portsmouth, Reading, Richmond and Kingston, St. Albans, Sheffield, Southampton, Southend, Swansea, Tunbridge Wells, Yeovil, York. Subscription, ½ to 2 gs. p.a.

Qualifications for election to Associateship: (*a*) 10 yrs.' service in a banking establishment, or (*b*) passing approved examns., or (*c*) being a graduate of a University and on the staff of a banking establishment. Ordinary members are elected from the staff of any banking establishment on the Council's list. Associates by examination may add to their names or signatures, " Cert. A.I.B."

Examinations, open to members only, (i) The Associate Examn., held in April in London, the provinces, and abroad. Latest entry date—Feb. 15.* Subjects: Practice and Law of Banking, Economics,

* For members outside Europe: January 31.

Engl. Compn., Comml. Geog., Foreign Exchange, Book-keeping and Accountancy; optional—French, Spanish, Italian, Portuguese, German. The examn. is divided into two parts extending over a period of not less than 3 yrs., Pt. II. to be taken not less than 1 yr. from Pt. I. For Examns. *exempting* from Part I., reference should be made to the Institute. (ii) For the Diploma in Executor and Trustee Work regulations are similar to those for the Associate examn. Subjects: Pt. I., English Composition, Practice and Law of Banking, Book-keeping, General Principles of Law, Death Duties and Probate Practice. Pt. II., Theory and Practice of Investment, including the Practice of the Stock Exchange, Law Relating to Wills, Executors, Administrators and Trustees, Trust Accounting, Elements of the Law of Real Property and Elementary Conveyancing, Practical Trust Administration. (iii) For Diploma in French, Spanish, Portuguese, Italian, German and Welsh, held annually in the spring. *Scholarships* entitling holder to spend 2 months in a bank abroad are awarded in connexion with the Diploma examns.

Lectures or courses of lectures in Banking and kindred subjects are given during the winter in London and at all the Local Centres. *Library* (lending), over 10,000 books and periodicals. *Journal*, monthly, Oct. to June, 1s. 6d. (15s. p.a., post free). *Examn. Questions*, 6d. each yearly set. The Examn. Syllabuses may be obtained on application to the Secretary.

7.

INSTITUTE OF CHEMISTRY OF GREAT BRITAIN AND IRELAND

Founded 1877. Incorporated by Royal Charter, 1885. *Address*—30 Russell Sq., London, W.C.1. *Library*, 4650 vols. *Laboratories*. *Appointments Registers* of Fellows, Associates, Registered Students, and Lab. Assts.

Studentship. Minimum age, 16. Annual subs., 10s. A candidate must have passed an approved examn. of matricn. standard and must be undergoing a course of preparation and training for the practice of Chemistry in a teaching institution recognized by the Council, or under a Fellow of the Institute in a lab. or works approved by the Council.

The institutions recognized for training candidates for the examns. of the I.C. are: All the Univs. in Great Britain, Northern Ireland and Eire (including the following institutions connected with the Univ. of London: University Coll., King's Coll., Imperial Coll., Birkbeck Coll., Bedford Coll., Royal Holloway Coll., Queen Mary Coll., Battersea Polytech., Northern Polytech., Sir John Cass Tech. Inst. (evg.), Chelsea Polytech., West Ham Munic. Coll., Woolwich Polytech.); Univ. Colls., Exeter, Hull, Leicester, Nottingham, Southampton; Aberdeen, Robert Gordon's Tech. Coll.; Acton Tech. Coll., Birmingham Cent. Tech. Coll., Blackburn Munic. Tech. School, Bradford City Tech. Coll., Brighton Tech. Coll., Coventry Tech. Coll., Dagenham S.E. Essex Tech. Coll.,

Derby Tech. Coll., Doncaster Tech. Coll., Gillingham Medway Tech. Coll., Halifax Tech. Coll., Huddersfield Tech. Coll., Hull Tech Coll., Leeds Tech. Coll., Leicester Tech. Coll., Liverpool Cent. Tech Coll.; London Polytechnic, Regent St.; Loughborough Tech. Coll., Manchester Tech. Coll., Middlesbrough Constantine Tech. Coll.; Rutherford Tech. Coll., Newcastle upon Tyne; Portsmouth Munic. Coll., Preston Harris Inst., Salford Royal Tech. Inst., Wigan Mining and Tech. Coll., Cardiff Tech. Coll.; R. Tech. Coll., Glasgow; Heriot-Watt Coll., Edin.; Paisley Tech. Coll.; Overseas Univs.—Manitoba, McGill, Queen's (Ontario), Toronto, Adel., Melb., Syd., W. Aust., N.Z , Cape Town, South Africa, Stellenbosch, Witwatersrand, and also Coll. Sc., Transvaal.

The compulsory subjects of training are Chem., Physics, Maths., and one other optional Science subject, the course in Chem. extending over 4 yrs. Evening-class training is recognized if the candidate is engaged in the practice of Chem. during the day and attends a systematic course previously approved by the Council extending over 5 yrs., and is recommended by his teachers. Evidence of having passed the class or other approved examns. is required.

The A.I.C. examn. in General Chemistry (inorganic, organic, and physical), fee, 5 gs., occupies 6 days, including 4 days of practical Chem., and is open to students who (i) have completed the prescribed training, or (ii) have obtained a degree including the necessary subjects, and worked for a further yr. in a recognized Univ. or Coll., or for 2 yrs. with a Fellow in a lab. or works approved by the Council, or (iii) have been otherwise trained to the satisfaction of the Council and been engaged in the study and practice of Chem. for 8 yrs. The A.I.C. may be granted (without examn.) to graduates with 1st or 2nd Class Hons. in Chem., or holders of diplomas recognized as equivalent, who have completed a 4 yrs.' course in the requisite subjects or a 3 yrs.' course supplemented by approved experience in laboratories or works. Applications from candidates having diplomas of Dominion or foreign Univs., or of a specialized character, will be decided on their merits. Persons of at least 30 yrs. of age who have had 12 or more yrs.' experience of chemical work may be admitted to a modified examn. Entrance fee, 2 gs. Annual subsn., 1½ gs.

Associates must be registered as such for 3 yrs. before election to the F.I.C. The F.I.C. examn., fee for Associates, 5 gs., occupies at least 5 days in any one of the following branches: Inorganic, Physical, Organic, Biochemistry, Agricultural, Foods and Drugs and Water, and Industrial Chemistry with special reference to particular industries. In exceptional cases other candidates who have been systematically trained and have had considerable experience may be examined for F.I.C., fee, 10 gs. The F.I.C. may also in exceptional circumstances be granted without examn. to Associates of 3 yrs.' standing who have carried out original research or devised processes or inventions or given other sufficient evidence of knowledge and ability. Entrance fee, Non-Assocs., 5 gs., Assocs., 3 gs. Annual subsn., 2 gs.

Arrangements have been made between the Board of Education and the Institute for the award of National Certificates in Chem. to students in technical schs. and colls. in England and Wales (Rules 100,

1921, 2d.). The Institute in conjunction with the Board approves schemes of training submitted by the technical schs. or colls. for the award of certifs. for part-time grouped courses, including in addition to chem. suitable courses in physics, mathematics, and cognate subjects. Courses for Part-time Course certifs. are designated *Senior* for the Ordinary and *Advanced* for the Higher certif. There are similar schemes in conjunction with the Scottish Education Dept., and with the Ministry of Education, Northern Ireland. Holders of Part-time Certifs. can ascertain from the Registrar of the Institute how far their training qualifies for admission to the examn. for the Associateship.

Pedler Research Scholarship, open to Fellows and Associates of the Institute, £300 a year, for at least 12 mos. The Scholar, who may not hold any other Scholarship or Bursary without the knowledge and consent of the Council, must work on a problem suggested by the Council which needs investigation in the public interest. Awarded as funds permit. Particulars from the Registrar of the Institute.

Publications. Register of Members; *Regns. for Admission*; *Examn. Papers*, 1s. a set; *List of Official Chemical Appointments*, 8th edition, 1934, 5s. net. (This includes a *List of Societies and Institutions* directly interested in the advancement of Chemical Science and Technology, with information as to their chief objects.) *Journal and Procdgs.*, 6 parts annually, 2s. each; *The Profession of Chemistry*, 2s. 6d.; *Lectures* (monographs on various industries—branches of chemical practice, etc.) at various prices.

CHEMICAL SOCIETY

Address—Burlington House, London, W.1. Fellows are elected by the Council on the recommendation from personal knowledge of not less than three Fellows of the Society. Fellowship is open to men and women of all nationalities who are interested in Chemistry and wish to keep in touch with its advances.

Fellows who have paid the annual subscription of £3 have the following privileges: To receive free of charge the *Journal of the Chemical Society* and either *British Chemical and Physiological Abstracts "A"* or the *Annual Reports on the Progress of Chemistry*; and to obtain other publications of the Society and certain publications of allied Societies at reduced rates. To consult and to borrow the books in the Library. To attend meetings of the Society both in London and outside London, and to introduce two guests thereto. To apply for research grants. To submit original papers for publication in the Journal.

Fellows under the age of 25 years have the option of paying a reduced annual subscription of £1 : 10s. Fellows paying this reduced subscription may receive the *Annual Reports on the Progress of Chemistry*, and either the *Journal of the Chemical Society* or *British Chemical and Physiological Abstracts "A"*; they enjoy all the other privileges accorded to those paying the full annual subscription.

Research Fund from which grants are made (to the amount of about £700 p.a.) for purchase of special materials and apparatus for research.

See Appendix II. 18

8.

THE INSTITUTION OF CIVIL ENGINEERS

Established 1818. Incorporated by Royal Charter, 1828. *Address* —Great George St., Westminster, S.W.1. *Telegrams*—Institution, London.

Examinations, (i) Preliminary and (ii) Associate Membership, are held annually in April and Oct. in London. Entries receivable up to Feb 28 and Aug. 31. The April (and in 1939, the Oct.) examn. may also be held in Manchester, Glasgow, Newcastle upon Tyne, and Dublin. (i) and (ii) may under certain conditions be held in the King's Dominions overseas.

For admission to (i) nomination by a corporate member is necessary, and conditions as to practical training have to be fulfilled. It includes English, Maths., and one language and one science subject from the following: Elem. Chem., Elem. Mechanics, Elem. Physics, Latin, Greek, French, German, Ital., Span., Port., Dutch, Afrikaans, Hindustani, Burmese, Russian, Chinese, Japanese.

Admission to (ii) is open to (*a*) *Students* of the Instn. (v. *infra*) of at least 1 yr.'s standing between ages 20 and 28, and (*b*) persons of at least 25 yrs. of age who have passed or are exempt from (i) and are in other respects (training, experience, etc.) qualified for election into the Institution. The examn. includes papers in (A) Mechanics, Strength and Elasticity of Materials, Electricity and Magnetism, *either* Theory of Structures *or* Theory of Machines; (B) Engin. Drawing and 2 out of 10 other subjects; and (C) Engin. Drawings, Specifications and Quantities. Candidates able to appear in London may present a written report on engineering work on which they have been engaged and submit to an oral examination in place of (C).

For admission as *Student* age must be between 17 and 25, and candidate must be recommended by a corporate member under whom he is, or has been, in course of preparation and training in accordance with the Instn.'s prescriptions. A candidate for election as *Associate Member* must satisfy the Council as to his training and experience, and must, unless exempted, pass (i) and (ii). Exemption from (i) is granted to graduates of any Univ. of the Empire, to Whitworth Scholars and, subject to provisos, to persons who have passed or are entitled to exemption from certain university matriculation or entrance examns. in Gt. Britain and Ireland, Canada, Australia, New Zealand, S. Africa, India (Bombay), Hong-Kong. Exemption from sections (A) and (B) of (ii) is granted, subject to provisos in certain cases, for the B.Sc. in Engin. or equivalent degree of all the Univs. of Gt. Britain (except Reading) and Ireland, and of the following overseas Univs.: Adel., Bombay, Brit. Columbia, Cape Town, McGill, Melb., New Zealand, Queen's (Kingston, Ont.), Q'ld., Syd., Tas., Tor., W. Aust., Witw.

Exemption from section (B) only is granted to certain Univ. graduates. No University qualifications exempt from section (C).

Members and Associate members are entitled to the designation *Chartered Civil Engineer.*

Publications. Report on Methods of Educn. and Training of all Classes of Engrs., 1906, Wm. Clowes, 94 Jermyn St., S.W.1, post free, 11d.; *Report of Confce. on Educn. and Training*, June 1911; Papers and Reports on Technical Subjects.

THE INSTITUTION OF ELECTRICAL ENGINEERS

Founded 1871. Incorporated by Royal Charter, 1921. *Address*—Savoy Place, Victoria Embankment, London, W.C.2. *Telegrams*—Voltampere, Phone, London.

Examinations are held in London and other centres in Great Britain, in May and November, of candidates for Graduateship. Applications should reach the Secy. not later than Apr. 1 and Oct. 1 respectively. Examns. may also be held abroad in Nov. Part I. includes English; Applied Mechanics; Elec. Technology; Heat, Light and Sound. Part II. consists of papers on technical subjects.

A candidate for Associate Membership is required to possess an approved educational qualification, or to pass the grad. examn. or in approved cases to present a satisfactory thesis, paper, or other written work on Elect. Eng. or its applications. He must also be at least 26 years of age, and must be engaged in one of the branches of Elect. Eng., and satisfy the Council as to his experience, etc.

An Engineering Degree of any Univ. in the British Empire approved for the purpose is recognized, subject to certain provisos, as an approved educational qualification. Certain diplomas in electrical engineering are likewise recognized.

National Certificates and Diplomas are awarded by the Institution jointly with the Board of Education or the Scottish Edn. Dept. on lines similar to those for Mech. Engineers; v. *infra.*

The following scholarships are awarded annually by the Council:

Duddell Scholarship. £150 p.a., tenable for 3 yrs. Each candidate must be nominated not later than April 15 by a Corporate Member of the Instn., and preference will be given to candidates whose fathers or a near relative are, or have been, members of the Instn. Open to British subjects under 19 yrs. of age on July 1, who have matriculated or passed an examn. exempting from Matricn., and who wish to take up a whole-time day course in Elect. Eng.

Ferranti Scholarship. £250 p.a., tenable for 2 yrs. Each candidate must be nominated not later than April 15 by the Professor or Teacher under whom he is working or has worked, and preference will be given to candidates whose fathers are, or have been, members of the Instn. Open to British subjects under 26 yrs. of age on July 1 who are Students or Graduates of the Instn., of not less than two yrs.' standing, and have completed to the satisfaction of the Council a recognized course in Elect. Eng. or Science of at least three yrs., and who desire to carry out whole-time research or postgraduate work.

Swan Memorial Scholarship, £120 p.a. tenable for 1 yr. Each candidate must be nominated not later than April 15 by the Prof. or teacher under whom he is working or has worked. Preference given to candidates either (*a*) born in the Co. Borough of Sunderland, or (*b*) resident in that Borough for a minimum of 7 yrs., or (*c*) educated at Sunderland Tech. Coll. Open to British subjects under 27 yrs. of age on July 1 who have completed to the satisfaction of the Council a recognized course in Elect. Eng. or Science of at least 3 yrs. and who desire to carry out whole-time research or postgraduate work.

Silvanus Thompson Scholarship, for works employees. £100 p.a. and tuition fees, tenable for 2 yrs. Each candidate must be nominated not later than April 15 by a Corporate Member of the Instn., and must be the son of parents of limited means. Open to British subjects under 22 yrs. of age on July 1, who desire to take up a whole-time day course in Elect. Eng. and who (*a*) have served a minimum apprenticeship (or its equivalent) of 3 yrs. at an approved Elect. Eng. works, and (*b*), in addition to having taken full advantage of available opportunities for tech. education, have acquired a marked degree of skill, and/or shown evidence of originality.

Applications (specifically mentioning the name of the Scholarship) for particulars and Nomination Forms should be addressed to the Secretary.

THE INSTITUTION OF MECHANICAL ENGINEERS

Established 1847. Incorporated by Royal Charter, 1930. *Address* —Storey's Gate, St. James's Park, London, S.W.1. *Telegrams*—Mech. Parl., London.

Examinations are held in London and at provincial centres and in India in April and Oct., and at other overseas centres in Oct.: (i) *Studentship* Examn. (minimum age, 16), including papers in General Knowledge (English, Hist., Geog.), Elem. Maths., Elem. Mechanics and either Physics or Chem. (ii) The *Associate Membership* Examn., including—Section A: App. Maths., Physics and Chem., Modern Lang. or Essay and Fundamentals of Indust. Admin.; Section B: Theory of Machines and Machine Design, Properties and Strength of Materials, and an optional technical subject; also Section C: Workshop Organizn. and Management.

A candidate for election as *Student* must, unless exempted (*see below*), pass the Studentship Examn. (i) and be receiving regular training as a mechanical engineer, or full-time instruction in an Engineering School or College with the intention to receive regular training as a mechanical engineer. Minimum age 16.

A candidate for election as *Graduate* must, unless exempted (*see below*), pass Sections A and B of examn. (ii), and have received or be receiving sufficient regular training as a mechanical engineer to fit him for employment as such. Minimum age, 21.

A candidate for election as *Associate Member* must be at least 25 yrs. of age. The passing of the A.M. or equivalent examn. is indispensable

up to the age of 33, and he must also have been regularly trained and have had sufficient practical experience in Mech. Engineering.

Examns. exempting from (i) : a degree of any recognized Univ. in the British Empire ; Matriculation and School Certificate Examns. of various Univs. and other examining bodies in Gt. Britain and Ireland ; certain examns. of matricn. standard held in South Africa, Australia, New Zealand, and Hong-Kong ; certain other examns.

Examns. exempting from Section A and Section B of examn. (ii) : Eng. degrees of any Univ. in Gt. Britain, Ireland, or British Dominions, except such as may be specifically excluded ; Eng. degree of a foreign Univ. if recognized by the Council ; Diploma in Eng. of Univ., King's, or City and Guilds (Engin.) Coll., London ; Certif. in Technol., Mech. or Elect. Engin., Manchester Univ. ; Final Dipl. in Mech. or El. E. of R.T.C., Glas., if approved Matricn. examn. passed before beginning course ; R.N. examn. qualifying as Lieut. (E.) ; Inst. C.E. Assoc. M. examn., provided certain subjects are passed ; Whitworth Scholps. and Exhibns.

National Certificates and Diplomas are awarded by the Institution in conjunction with the Board of Education to students of approved Technical Schs. and Colls. (v. Board of Education, Rules 106, 1d.). Certificates are awarded in respect of part-time and Diplomas in respect of full-time grouped courses. Part-time courses are classified as *Senior* or *Advanced*, the latter aiming at reaching, within the limits of the subjects covered, the standard of University work. Full-time courses are also classified as *Senior* (for Secondary Sch. students aged 16) and *Advanced* (for Secondary Sch. students aged 17 or 18, or students who have been for 2 yrs. in regular employment with concurrent instruction at senior or advanced part-time courses). The Senr. Full-time and Advanced Pt.-time courses must extend over at least 2 yrs., and the Advanced Full-time and Senr. Pt.-time courses should normally extend over 3. The Certifs. and Diplomas relating to Senior and Advanced courses respectively are known as *Ordinary* and *Higher*. The *Ordinary* Certifs. and Diplomas exempt candidates from certain subjects of the Studentship and Associate Membership Examns. and the *Higher Certifs.* and Diplomas from certain subjects of the Associate Membership examn. Special conditions apply to holders of both the *Ordinary and Higher* awards. Certifs. and Diplomas may be endorsed in additional subjects on completion of Supplementary Courses and may also be signed on behalf of certain other Instns. in respect of specialized courses.

INSTITUTION OF MINING ENGINEERS, *see* p. 1045

ROYAL AERONAUTICAL SOCIETY

(with which is incorporated The Institution of Aeronautical Engineers)

Founded 1866. *Address*—4 Hamilton Place, London, S.W.1.

Membership may be either technical (Students, Graduates, Associates, Associate Members, Associate Fellows, Members, and Fellows) or

non-technical (Companions). *Associate Fellowship* (A.F.R.Ae.S.) is reserved for those who have certain attainments in the science or practice or teaching of aeronautics or its allied sciences and have passed the Associate Fellowship Examination or an exempting examination; *Associate Membership* (A.M.I.Ae.E.) is reserved for those who have certain attainments in the practice of aeronautics or its allied subjects and have passed the Associate Membership Examination or an exempting examination; *Membership* (M.I.Ae.E.) for those who have attained considerable eminence and are qualified as Associate Members; *Fellowship* (F.R.Ae.S.) for those who have attained to considerable eminence, and are qualified as Associate Fellows. Annual subsn., 1 g., 2 gs., 3 gs., and 4 gs., according to class. Entrance for Associates, Graduates and Companions, 1 g.; for Associate Fellows and Associate Members, 2 gs.; for Fellows and Members, 3 gs. Library, including large recent acquisitions due to grant from Carnegie U.K. Trust, available to non-members through the medium of the National Central Library, 9 Malet Place, W.C.1. *Lectures*, regularly in winter. *Publication*: *Journal* (monthly).

THE INSTITUTION OF AUTOMOBILE ENGINEERS

Founded 1906. Incorporated by Royal Charter 1938. *Address*—Headquarters: 12 Hobart Place, London, S.W.1. *Telegrams*—Autinst, Sowest., London. Laboratories: Great West Rd., Brentford.

Qualifications for (1) Ordinary Membership (M.I.A.E.): minimum age, 33; having occupied during a sufficient period a responsible position in connexion with the practice, or otherwise proved thorough knowledge of theory and practice, of Automobile Engineering; (2) Associate Membership (A.M.I.A.E.): min. age, 26; having been trained as Engineer and subsequently employed for at least 2 yrs. in practice and science of A.E. and being actually so engaged, and having proved by examn. or otherwise thorough knowledge of the theory and practice of A.E. Persons suitably qualified may also join as graduates, students or associates, and approved automobile manufacturing and transport firms as Affiliated Manufacturers and Operators to receive the Reports of the Automobile Research Committee of the Instn. and other tech. literature. Annual subsn., 15s. to 3½ gs., according to class. Minimum subsn. for firms, £10 p.a. Prizes up to £10 for Papers by Graduates. Well-equipped laboratories are maintained for the conduct of cooperative research for the automobile industry. The Institution also undertakes the examn. of mechanics engaged in the repair and service of motor vehicles and issues certifs. and badges of proficiency to successful candidates.

THE INSTITUTION OF CHEMICAL ENGINEERS

Incorporated Dec. 21, 1922. *Address*—56 Victoria Street, London, S.W 1. *Telegrams*—Inchemengs, Sowest, London.

Membership (M.I.Chem.E.) qualifications: minimum age, 32, and satisfactory evidence of good general and scientific education, training,

and experience, or of eminence as a Chemical Engineer. *Associate Membership* (A.M.I.Chem.E.): candidates not below the age of 25 who have had regular training and sufficient experience may qualify by passing a prescribed examn. Alternative qualifications are also provided for. Subscriptions of students, graduates, and corporate members range from ½ g. to 5 gs.

THE INSTITUTION OF GAS ENGINEERS

Founded 1863. Royal Charter 1929. *Address*—1 Grosvenor Place, London, S.W.1. *Telegrams*—Gasophaner, Knights—London.

There are Major Courses for internal Students at Technical Colls. and for external Students not so studying, for the award—in co-operation with the Board of Education—of Ordinary Grade and Higher Grade Certifs. and the Diploma in Gas Engineering (Manufacture) and in Gas Engineering (Supply). There is also a Course for the Certif. in Gas Supply, primarily intended for candidates not engaged on the practical side of the Gas Industry. The Higher Grade Certifs. in Gas Engin. (Manufacture) or (Supply) or the Diplomas are amongst the qualifications required for admittance to Corporate Membership of the Instn. The Certif. in Gas Supply does not admit to any class of membership, nor to the Diploma Examn. in Gas Engin. (Supply). There are Minor Courses in Gas Supply Practice, and a Course in Gas-fitting.

Candidates for the Diploma in Gas Engin. (Manufacture) and Gas Engin. (Supply) must have passed the Matricn. Examn. of any recognized British Univ. or hold a General Schools Certif, Scottish Leaving Certif., Senior Certif. of Ministry of Education for Northern Ireland, or an equivalent, or pass an Entrance Examn. conducted by the Gas Education Committee of the Instn.

The Livesey Professorship in the Dept. of Coal Gas and Fuel Industries is endowed at Leeds Univ., where the following awards are made by the Instn.: Instn. Gas Research Fellowship, Corbet Woodall Scholarship and William Cartwright Holmes Scholarship. The Arthur Duckham Research Fellowship and the Charles Hunt Memorial Medals in the Diploma Examns. are amongst the awards made by the Instn.

Publications. Transactions, annually; *Communications*, May and Oct.; *By-Laws*; *Education Regulations*.

THE INSTITUTE OF MARINE ENGINEERS

Established and incorporated 1889. Royal Charter 1933. *Address*—85 The Minories, London, E.C.3. *Telegrams*—Gradation Ald., London.

There are 5 classes of members, viz.: (i) Members, (ii) Companions, (iii) Associate members, (iv) Associates, (v) Students, who being under 25 have had or are receiving a recognized training in engin. or shipbuilding, and have attained the Student examn. standard prescribed by the Institute, (vi) Probationer Students, who being at least 17 and not

over 20 and have passed Part I. of the Student examn. and also satisfied the Council that they are or intend to become engin. apprentices and engin. students at an approved educational instn. The examns. are held in London and the provinces in May; subjects: English and General Knowledge, Maths., Applied Mechs., Machine Drawing, Heat Engines, Electrotechnol.

The Associate Membership examn. is held in London and the provinces in May; subjects: Applied Mechs., Properties and Strength of Materials, Heat Engines, Marine Engin. Drawing and Design, Marine Engin. Knowledge, Electrotechnol. or Naval Archit.

Exemptions are allowed to candidates for Associate Membership, Studentship, and Probationer Studentship in consideration of certain alternative educational qualifications.

Entrance fee, 10s. to 30s., and annual subsn., 5s. to £1 : 11 : 6, according to grade of membership.

Library (over 3000 vols.) and Reading Room. Lectures monthly (usually on 2nd Tuesday) during winter session. Gold Medal and other awards for Essay competitions.

Further information from the Secretary.

INSTITUTION OF NAVAL ARCHITECTS

Founded 1860. Incorporated by Royal Charter 1910. *Address*—10 Upper Belgrave St., London, S.W.1. *Telephone*—Sloane 4622. *Telegrams*—Sinai, Knights, London.

Principal qualifications for Membership: minimum age, 30; having served apprenticeship in Naval Arch. or Marine Eng. and subsequently been engaged in such occupation and having held a post of primary responsibility for 7 yrs. or more. Qualifications for Associate-Membership are similar, but minimum age is 25 and post of primary responsibility need not have been held. Age-limit for Associates, 25; Students, 18-25. Entrance fee and annual subsn., 2 gs. each, except for students, who pay subsn. 15s. p.a. and no entrance fee.

There is no preliminary examn., but candidates for admission as students, in addition to having already begun training in Naval Archit. or Marine Engin., must have passed (*a*) a degree examn.; (*b*) matricn. or the entrance examn. of a British Empire Univ. (subjects, generally speaking, must cover Advanced or Higher Maths. and Mechs., or Physics, or Chem.—full details obtainable from the Secretary of the Instn.); (*c*) School Certifs. (provided pass with credit obtained in a science subject and Higher or Addnl. Maths. or Appld. Maths.); (*d*) entrance qualification for Naval Archit. or Marine Engin. students at Royal Naval Coll., Greenwich, or have (*e*) obtained the rank of Midshipman, R.N., or (*f*) as dockyard apprentices completed 4 yrs. in a dockyard school and passed the Second Year examn. in English, Hist. and Lit.

Scholarships offered for competition: I.N.A., Martell and Elgar, each £130 p.a., Trewent £125 p.a. and Vickers-Armstrong £150 p a. in Naval Architecture; Parsons £150 p.a. and Yarrow £100 p.a. in Marine

Engineering, all tenable for 3 or 4 yrs. and open to Royal Dockyard and/or private shipyard apprentices; Denny (*a*) Naval Architecture and (*b*) Marine Engineering, each £100 p.a. tenable for 4 yrs., open to public and secondary schoolboys; two for postgrad. research are awarded on recommendation of Univ. authorities (*see* Appendix II. 12).

Annual meetings, when papers are read and discussed. Summer meetings at shipbuilding centres at home or abroad.

Library, over 5000 vols., comprising principal works on shipbuilding, ancient and modern. *Transactions*, issued annually, a permanent record for over 75 yrs. of all important developments in shipbuilding and marine eng.: £3 : 3s. for current vol. (free to members); £3 : 3s. to 10s. 6d. for earlier numbers. Membership 2600, including many foreign naval architects of eminence. Distinctive letters, M.Inst.N.A., etc.

NORTH-EAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS

Founded 1884. Incorporated in 1914 under Companies Acts. *Address*—Bolbec Hall, Newcastle upon Tyne, 1.

Qualifications for Membership, Associate Membership, etc., are somewhat similar to those prescribed by the Institution of Naval Architects (v. *supra*). Distinctive letters, M.N.E.C.Inst., etc. All members are, by virtue of their membership, also members of the *Cleveland Scientific and Technical Institution, Middlesbrough.*

The Institution *Scholarship* in shipbuilding, marine, mech., or elect. eng., maximum value £100, tenure 1-3 yrs., is awarded annually on results of an examn. in July. The scholar must attend a full-time day course in Naval Arch. or in Marine Eng. at a recognized Coll. or Tech. School in Gt. Britain with a view to taking a degree in Naval Arch. or Eng. He must also spend some portion of the summer vacation in a shipyard or engineering works. Further particulars and forms of application obtainable from the Secretary of the Institution.

The George Mitchell Harroway Scholarship, value £100 p.a. for 3 yrs., is offered triennially. Next award 1939. Open only to candidates born in the borough of Blyth, Northumberland, or in the county borough of Middlesbrough, Yorks, of not less than 17 or more than 20 yrs. of age on Oct. 1 following date of application. No examn. Otherwise conditions similar to those of Institution Scholarship.

The Thomas Fenwick Reed Gold Medal, awarded to a member under 30 who shows most successfully evidence of ability to take a share in the control of industry, is offered biennally for competition.

Library, over 5000 books on eng. and shipbuilding. Reading Room with 170 British, foreign, and colonial periodicals. *Transactions*, 8 Pts. since 1884, 5s. each. Ann. vol., 25s. Papers published also in excerpt form, 2s. 6d. to 5s. each, with discussion, correspondence, and author's reply.

INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND

Founded 1857. Incorporated 1871. *Address*—39 Elmbank Crescent, Glasgow, C.2.

Qualifications for Membership, Associateship, etc., are somewhat similar to those prescribed by the Instn. of Naval Architects (v. *supra*). Distinctive letters, M.I.E.S., etc. The Instn. reciprocates with the N.E. Coast Instn. of Eng. and Shipb., Inst. of Marine Eng. and Liv. Eng. Soc. in regard to the use of premises and attendance at meetings. It publishes *Transactions*.

THE INSTITUTION OF MUNICIPAL AND COUNTY ENGINEERS

Founded 1873. Incorporated 1890. *Address*—84 Eccleston Square, London, S.W. 1. A Constituent Institution of the Engineering Joint Council.

Qualifications for Membership (M.Inst.M. and Cy.E.): minimum age, 25; holding either a permanent chief appointment as an Engineer or Surveyor under a Municipal Corporation or other such Public Authority, or a permanent appointment as Deputy Engineer or Surveyor or the like; and having passed the examn. of the Instn. or obtained equivalent Degree or Dipl., and in the case of deputies, etc., testimony of professional ability and experience justifying election.

Qualifications for Associate Membership (A.M.Inst M. and Cy.E.): minimum age, 23; having undergone a recognized course of instruction as Civil Engineer and Surveyor and holding a position as Engineering Asst. or Resident Engineer or the like under a Public Authority; and having passed the examn. of the Instn. or other examn. approved by the Council as equivalent.

A candidate for election as Student (age-limits 18 to 24) must be undergoing or have undergone a regular course of training as an articled pupil to, or hold an approved appointment with, an Engineer or Surveyor to a Public Authority and must have passed Matricn. or equivalent.

Qualifications for Associates: not being Municipal or County Engineer by profession, but engaged in branches of science allied to municipal or county engineering.

Entrance fee for Member, 1½ gs., and Assoc. Member and Associate, £1 : 5s.; subsn., 2 gs., 1½ gs. Student's subsn., 1 g.

Examinations: April and Oct. Applications receivable up to Nov. 1 and May 1. Five certifs. are awarded: (*a*) Testamur for general proficiency in work of a local govt. engineer and surveyor; (*b*) certif. in Town Planning awarded as a result of the examn. held by the Town Planning Joint Examn. Bd., of which the Instn. is a constituent body; (*c*) certif. in County and Highway Eng. for specialized knowledge of road and bridge eng. and highway management and administration; (*d*) diploma in Administration; (*e*) Building Inspectors' Certif.

Inquiries about examns. in Gt. Britain, India, and S. Africa may be addressed to the Secretary.

Publications: *Journal*, fortnightly, 2 gs. p.a.; Handbook containing lists of Members, Regns., etc., 5s.; and several others.

THE INSTITUTION OF STRUCTURAL ENGINEERS

Founded 1908. Incorporated by Royal Charter, 1934. *Address*—11 Upper Belgrave Street, London, S.W.1. *Telegrams*—Coninst, Knights, London. Branches (8): Lancashire and Cheshire, Western Counties, Yorkshire, Midland Counties, South-Western, S. Wales, Scottish and South African.

Studentship qualifications: age 18-21; should have passed matricn. or an equivalent examn. and should be students of Structural Engin. *Graduateship*: age 21-25, must pass Instn. Examn. or hold exempting qualification and should be students of Struct. Engin. *Associate Membership*: age 25 and upwards; must be engaged in the profession of Struct. Engin. and pass Instn. Examns. *Associateship*: age 30 and upwards; for members of kindred professions, interested in Struct. Engin., who are of equal professional standing to Members. *Membership*: age 30 and upwards, who (*a*) have passed Associateship Membership Examn. and subsequently have been engaged for 5 yrs. in position of responsibility for the design or execution of important Struct. Engin. work, or (*b*) have attained age 35 and upwards and have had at least 15 yrs. employment in position of responsibility for the design or execution of important Struct. Engin. work and shall have acquired a considerable degree of eminence as a Struct. Engineer, with minimum of 5 yrs. as Principal or active professional Partner in a Firm carrying out Struct. Engin. work. Distinctive initials of Members, etc., M.I.Struct.E., etc.

Examinations held annually in July and Dec., in London, Birmingham, Bristol, Manchester, Middlesbrough, Norwich, Edinburgh, Glasgow and overseas at approved centres; entries received up to May 1 and Oct. 1. Graduateship Examn. includes papers on Principles of Statics and Theory of Structures (Elem.), Strength and Elasticity of Materials, and 3 of 5 selective subjects: Chem., Phys., Hydraulics, Geol., Surveying. Associate-Membership Examn. includes papers on Theory and Design of Structures (Advanced), either Reinforced Concrete or Structural Steelwork, and Practical Design.

Competitions for the award of prizes and medals, held from time to time.

Publications: *The Structural Engineer*, monthly, 1s. 2d. post free; *Yearbook and List of Members*, 2s. 4d. post free; numerous books and reports on technical subjects.

THE INSTITUTION OF WATER ENGINEERS

Established 1896. *Address*—Parliament Mansions, Victoria Street, Westminster, London, S.W.1.

Entrance fee, 3 gs., 2 gs., 1½ gs., according to class; annual subsn., Members and Professional Associates, 3 gs., Associate Members, 2 gs. Associates, 1½ gs., Students, 1 g. Reduction for members overseas. Meetings held in May or June and Dec.

Publication: *Transactions*, issued to members only; for sale in certain cases at 1 guinea.

SOCIETY OF ENGINEERS (INCORPORATED)

Established 1854; Civil and Mechanical Engineers' Society, founded 1859. Incorporated 1910. *Address*—17 Victoria Street, Westminster, London, S.W.1.

Qualifications for membership: *Associates* (A.S.E.): (i.) men of scientific attainments who, while not professional engineers, are engaged in professions allied to engineering; (ii.) Engineers under 21 yrs. of age; (iii.) Engineering pupils above 18 yrs. of age at time of their application for election. *Associate Members* (A.M.S.E.)—Regularly trained engineers not less than 21 yrs. of age professionally engaged as such at time of appln. for election. *Members* (M.S.E.)—Regularly trained engineers not less than 25 yrs. of age and responsibly engaged in the profession for at least 5 yrs. prior to appln. for election. *Fellows* (F.S.E.)—Engineers not less than 30 yrs. of age with adequate scientific edn. and engin. training who have occupied, and still occupy, responsible positions involving design or execution of important engin. works, and have passed the Society's examns., or approved exempting examns. Women are eligible for membership on same terms as above.

Entrance fee: Fellows, 3 gs. Subsn. (Town, Country, and Foreign), 3 gs., 2½ gs., and 2 gs. respectively; Members; 2½ gs.; Subsn. (Town, Country, and Foreign), 2½ gs., 2 gs., and 1½ gs. respectively; Associate Members and Associates over 21 yrs., entrance fee and subsn. each 1½ gs.; Associates under 21 yrs., entrance fee and subsn. each 10s. 6d.

Ordinary meetings held from Oct. to May (Jan. excepted). Visits to works of engin. interest arranged during vacation.

Publications: *Journal*, quarterly, 3s. 6d., free to members. *Transactions*, yearly 17s. 6d.

THE INSTITUTE OF TRANSPORT

Founded 1919. Incorporated by Royal Charter 1926. *Address*—15 Savoy Street, Victoria Embankment, London, W.C.2. *Telegrams*—Transitute, Rand, London.

Principal objects—to promote, encourage, and co-ordinate the study and advancement of the science and art of transport in all its branches.

Corporate Members are Members (M.Inst.T.) and Associate Members (A.M.Inst.T.) being persons elected as such by the Council, who are not less than 30 and 25 yrs. of age respectively. Non-Corporate Members are Associates (Assoc. Inst. T.); Graduates (Grad. Inst. T.) persons not under 21 yrs.; Students (Stud. Inst. T.) persons not under 17 yrs.

Examinations. Examns. are held annually in London and at such other centres (home and overseas) as the Council may from time to time establish. Unless otherwise determined, they will commence on the last Thursday in April. The Council at its discretion may also hold the examns. in Nov. of any year commencing on the last Thursday.

Applicants for admission to the Graduateship or Assoc. Membership Examn. must complete and submit the form of application to the Sec. not later than March 1 in respect of examn. in April following and Sept. 1 in respect of examns. which may be held in Nov. following.

Examn. Fees. Graduateship Examn., 2 gs.; Assoc. Membership Examn., 3 gs.

A candidate for Studentship of the Inst. shall be deemed to have passed a Qualifying Examn. who produces evidence of having passed one of the following examns.:

Degree examns. of any British Univ. The Matricn. Examn. or Entrance Examn. of any recognized British Univ. The Higher School Certif. Examn., and School Certif. Examn. of any recognized Brit. Univ. The Higher Certif. Examn., and School Certif. Examn. of the Ox. and Camb. Schools Examn. Bd. The Senr. Examn. of the Coll. of Preceptors. The School Certif. and Higher Certif. of the Central Welsh Bd. Leaving Certif. and Day School Certif. (Higher) of the Scottish Edn. Dept. The Senr. Secondary Schools Certif. of the Ministry of Edn. of Northern Ireland. Leaving Certif. Examn. of the Dept. of Edn., Irish Free State. General School Examn. of London Univ. *The preliminary examn. of any of the following*: Instn. of Civil and Mech. Engineers; Surveyors' Instn.; Instn. of Chartered Accountants; Society of Incorporated Accountants and Auditors; and the Chartered Inst. of Secretaries.

Entrance Fee. Members and Associates, 3 gs., Assoc. Members, 2 gs., Graduates, 1 g. *Annual subsns.*: Gt. Brit. or Ireland, amounts as above; outside, 1½ gs., 1 g., and 10s. 6d. respectively. Students, Gt. Brit. or Ireland, 1 g., outside, 10s. 6d.

Meetings (Oct. to April) and Congresses are held, and lectures given.

Local Sections: Birmingham and District, Bristol and District, East Midlands, Leeds and District, Manchester-Liverpool and District, Newcastle upon Tyne and District, Scottish. Centres abroad: in the Argentine, New South Wales, South Africa.

Premiums (gold and silver medals) are awarded, and in addition a Premium, presented by *Modern Transport*, is available for a paper by a Graduate or Student.

In co-operation with certain of the Univs., and other educational instns., courses of instruction on transport subjects have been provided.

Further particulars on appln. to the Secretary.

9.

INSTITUTE OF INDUSTRIAL ADMINISTRATION

(Incorporating the Business Research and Management Association of Great Britain.)

Founded 1920. *Address*—Artillery House, Artillery Row, London, S.W.1.

Among its objects are the following: To formulate the standards of knowledge, training, conduct and experience desirable in the practice of Indust. Admin.; to develop the science and technique of Indust. Admin. by papers, conferences and research; to promote the education of students in the principles and practice of the subject; to hold examns. and grant Certificates and Diplomas.

Examinations: Prelim.—Fundamentals of Indust. Admin.; Ordinary Certif.; Higher Certif.; Diploma.

Annual subns.—Fellows (F.I.I.A.), 3 gs.; Associates (A.I.I.A.), 2 gs.; Graduates (Grad. I.I.A.), 15s.; Affiliate Members, 1 g.; Student Members (17-25 yrs.), 10s. Graduateship may be granted provisionally to persons holding a B.Sc. (Econ.) or B.Com. degree of any approved Univ. or who have passed the qualifying examns. of approved professional bodies in the field of management.

A series of researches into and reports upon important current problems of indust. admin. are now under consideration. An Appointments Register is kept, free of charge.

10.

THE BAR IN ENGLAND AND WALES

The right to practise as a Barrister in the Law Courts of England and Wales is restricted to those who have been called to the Bar by one of the Inns of Court—Lincoln's Inn, Middle Temple, Inner Temple, and Gray's Inn. The consolidated Regulations of these Societies (obtainable from the *Council of Legal Education*, 15 Old Square, Lincoln's Inn, London, W.C.2) provide, *inter alia*, as follows: *Admission of Students.* The conditions include: (i) having passed any examn. held by any Univ. in the British Dominions or any of the States in India, approved by the Council of Legal Educn., which entitles to a degree, or, provided that one of the subjects in which the Student has passed is Latin, one of certain other examinations approved by the Council of Legal Education, v. *infra*; (ii) satisfactory evidence of good character; (iii) declaration that the candidate is not and does not " directly or indirectly act

in the capacity of a Solicitor, Attorney-at-Law . . . Professional Accountant, Actuary, Land-Agent, Surveyor . . ." or " in any capacity similar to any of those . . . otherwise than as . . ." The Schedule of approved Prelim. examns. includes those of the standing of Oxford Responsions, Cambridge Previous, and London Matriculation. The Masters of the Bench of the Inn of Court concerned may, in special cases, relax or dispense with this requirement, and solicitors admitted in England are exempted from it.

Keeping Terms. This is done by eating dinners 6 days in each of 12 terms (members of Univs. of the U.K. 3 days). There are 4 terms in each year.

Education and Examination. Systematic instruction is provided at the Inns of Court School of Law under the supervision and direction of the Council of Legal Education in Roman, International, Constitutional, and English Law, Legal History, and Equity. Reading in the chambers of a Barrister for the purpose of studying the practice of Law is recommended after the Bar Examns. have been passed, but this is not compulsory. Three examns. for Call to the Bar are held each year. Candidates must satisfy the examiners in each of the sections: (1) Roman Law, (2) Constitutional Law (English and Colonial) and Legal History, (3) Elements of the Law of Contract and of the Law of Tort, (4) Elements of Real Property, *or* Hindu and Mohammedan Law, *or* Roman Dutch Law, (5) Criminal Law and Procedure, (6) Common Law, (7) Equity, (8) Company Law and Practical Conveyancing (or a specified alternative), (9) Law of Evidence and Civil Procedure, (10) General Paper on Common Law and Equity. A student who has passed examinations forming part of the qualifying examn. for certain Univ. degrees may be excused some or all of the examn. in Part I. Sections 1 to 4 (constituting Part I.) may be taken separately (fee ½ g. each); 5 to 9 (the Final examn.) must be taken together (fee 2½ gs.) after having passed 1 to 4 and, ordinarily, after having kept at least 6 terms.

The successful students are classified and the names of those in Classes I. and II. of the Final Examination Pass List are arranged in order of merit. A Certif. of Honour is granted to those in Class I. at the Final examn. At certain of the examinations prizes of £50 each may be awarded for the best students (age not over 25) in Constitutional Law and Criminal Law, and a Studentship of 100 gs. p.a. tenable for 3 yrs. to the best student (age not over 25) at the Final examination. The Inn to which a student who has obtained a Studentship or Certificate of Honour belongs may, if desired, dispense with any terms, not exceeding 2, that may remain to be kept by him.

Calls to the Bar. Minimum age, 21. In special circumstances the Masters of the Bench may dispense with the keeping of not more than 2 of the 12 terms ordinarily required to be kept by a student before he is called, and special concessions in regard to the keeping of terms or examns., etc., are allowed to Scottish Advocates, Irish Barristers, members of the Bar of New South Wales, Ceylon, the Cape Province of South Africa, New Zealand, Vakils or Advocates who have been on the Roll of Vakils or Advocates of a High Court in India for not less than 3 yrs., certain Civil Servants exercising judicial functions abroad, and

to persons who, prior to admission as students, have practised as Solicitors for 5 yrs. subsequent to admission as a solicitor *in England.*

Fees. On admission: application, 1 g.; stamp duty, £25; lecture fee, 12 gs.; admission fees, £20 or £21. On Call: stamp duty, £50; composition for annual dues, £12; call fees, £38 (Gray's), £40 (Lincoln's), £50 (Middle or Inner Temple).

SOLICITORS IN ENGLAND AND WALES

Examinations are held by The LAW SOCIETY, Chancery Lane, London, W.C.2. All persons, except some Colonial Solicitors, are subject to Final examn. at or near the conclusion of service under Articles before they can be admitted as Solicitors. Subjects of Foreign States cannot be admitted. English Barristers of 5 yrs.' standing are not required to enter into Articles, but may be admitted after passing the Final examn. Before entering into Articles of Clerkship (under the Solrs. Acts, 1932 and 1936) with a view to admission as Solicitors it is necessary, except for persons exempted, to pass a *Preliminary examn.* (fee, £4) held in London and several provincial towns in Feb., July, and Oct., in English, Elem. Maths., Geog. of Europe, and Hist. of England, Latin, and one or (if Algebra and Elem. Geom. are not taken) two of the following—Latin translation, Greek, French, German, Spanish, Italian. Exemption is allowed to graduates in Arts, Laws or Science and persons who have passed matricn. or other corresponding examns. of certain Univs. of Great Britain or Ireland or examns. approved by the Law Society exempting therefrom; to Utter Barristers in England; and to persons who have passed Oxford Responsions or Cambridge Previous Examn. or any examn. exempting therefrom, or, subject to provisos, approved School Certificate or Higher Certificate examns., or certain other examns. After Jan. 1, 1938, Latin must have been one of the subjects passed at such matriculation examn. or exempting examn., including Responsions and the Previous Examn.

Service under Articles (stamp duty, £80) is normally for 5 yrs. This may be reduced to 3 yrs. for graduates in Arts or Laws or Sc. of certain Univs. of the U.K., English Barristers, of less than 5 yrs.' standing, or for members of the Faculty of Advocates, Writers to the Signet and Solrs. in the Supreme Courts of Scotland, or Procurators before any of the Sheriff Courts of Scotland.

An *Intermediate* examn. (fee, £6), which may be taken after completing 12 months' service in the case of 5 or 4½ years' articles, is held in March, June and Nov. Clerks articled for less than 4½ yrs. may take any Intermed. Examn. after the Registration of articles. Exemption from the Legal portion (but not from the Trust Accounts and Book-keeping portion) is given to those who (i) before or after entering into Articles have passed the examn. for the B.C.L. or LL.B. at certain of the Univs. of England and Wales or at the Univ. of Dublin or the Queen's Univ. of Belfast; or (ii) before entering into Articles have taken Hons. in the Final Honour School of Jurispr. at Oxford or in Part 2 of the Law Tripos at Cambridge.

The *Final* examn (fee, 10 gs.) is held in March, June, and Nov.

Prints of the Questions set at this and at the Preliminary and Interm. are obtainable from The Law Society.

THE SOLICITORS ACTS, 1932 and 1936. Section 7 (*b*) of the Solrs. Act 1936, requires that attendance at a Law School under Section 32 of the 1932 Act shall commence within 15 months of the execution of Articles. The latter provides that a person articled to a solicitor after Dec. 31, 1922, shall not be admitted to the Final Examn. unless he satisfies The Law Society that he has, during a period of 1 yr., complied with the requirements of the Society as to attendance at a Law School provided or approved by the Society. This does not apply to any person who (1) has taken a degree at certain Univs. in the U.K., after passing a Final Examn. in law at such Univ.; or (2) applies to be admitted to The Law Society's Final Examn. after satisfying the requirements of Section 32 (1) (*c*) (ii) of the Solrs. Act, 1932 and Section 7 (3) (*b*) of the Solrs. Act, 1936, and the regulations thereunder dated Oct. 23, 1936. Any person may be wholly or partially exempted from attendance at a Law School if he can satisfy The Law Society that such attendance is for geographical or other reasons impracticable.

Provided and Approved Schools. The Society's Law School in London; the Univs. of Birmingham (in conjunction with the Birmingham Board of Legal Studies), Bristol, Cambridge, Durham (King's College), Leeds, Liverpool (in conjunction with the Liverpool Board of Legal Studies), London, Manchester, Oxford, Sheffield, Wales (Univ. Colleges, Aberystwyth, Bangor, Cardiff, Swansea), Univ. College, Exeter, Univ. College, Southampton, East Midland Law School (Univ. Colleges of Nottingham and Leicester), Univ. College, Hull, and the Sussex Board of Legal Studies.

SCOTLAND

ADVOCATES

Full information as to admission to the Faculty of Advocates, Scotland, can be obtained on application to the Clerk of Intrants, Advocates' Library, Edinburgh.

The Faculty Examns. proceed upon a remit from the Court, following upon a Petition presented by the Intrant. In the event of the candidate not possessing a degree in Arts, he must either satisfy the Dean and his Council that he has passed an examn. evidencing the same amount of scholarship as that afforded by the degree of Master of Arts of a Scottish Univ., or pass the Faculty examn. in General Scholarship. A knowledge of Scots Law and Conveyancing is essential, and the candidate must have attended classes in these subjects in a Scottish or other approved Univ. The other legal subjects include Civil (Roman) Law, Philosophy of Law and International Law, Constitutional Law and History, and Medical Jurisprudence. The degree of LL.B. of a Scottish Univ., provided it has been obtained after examn. in all the prescribed subjects, exempts from examn. in General Scholarship and Law.

The fees payable on admission vary according to the age of the Intrant and other circumstances.

SOLICITORS (LAW AGENTS)

The generic name for solicitors in Scotland had up till 1933 been "Law Agent," a term synonymous with "Solicitor" in England, but "Law Agent" has now been replaced by "Solicitor" under the Solicitors (Scotland) Act, 1933. The title "Procurator" is also sometimes used. In Edinburgh, where the Court of Session sits, the term "Advocate" is equivalent to "Barrister," though in other parts of Scotland—at least in Aberdeen—certain of the Solicitors or Law Agents may be referred to by that title. In Edinburgh, Law Agents or Solicitors may be members of the Society of Writers to the Signet or of the Society of Solicitors in the Supreme Courts. The former generally use the designation "W.S.," the latter "S.S.C.", after their names, but any solicitor can practise without being a member of either Society provided that he has passed and been admitted "as a Solicitor."

For information regarding the Scottish Law Agents Society, application should be made to the Secretary, Scottish Law Agents Society, Dunblane.

WRITERS TO HIS MAJESTY'S SIGNET

The members of the Senior Society of solicitors in Scotland are called Writers to the Signet, from their having been originally clerks in the office of the King's Secretary. The method of entering the Society of Writers to His Majesty's Signet is by way of Petition to the Keeper and Commissioners of the Signet followed by Indenture, the period being either 5 or 3 yrs. according to the age and qualifications of the applicant. The fees payable on entering into Indenture are £345 : 1s., together with other minor charges. Two examns. have to be passed, the first directed both to the theory and to the practice of Law. Upon expiry of the term of apprenticeship and after discharge of the Indenture the Intrant has to pass a second examn. in legal subjects. An applicant who holds a degree in Law of any Scottish University is exempted from all examinations except in Book-keeping and Accountancy provided that the Law of Scotland, Conveyancing, and Civil and Criminal Procedure are included in the subjects in which he has passed for the Degree. The fees payable by Intrants for admission amount to £137 : 17s. For further information application should be made to the Substitute Keeper and Clerk of the Society of Writers to His Majesty's Signet, 15 York Place, Edinburgh.

SOLICITORS

An intending Apprentice before commencing his apprenticeship must hold such qualifications as would entitle him to enter on a graduation course in the Faculty of Law of a Scottish Univ. He is required, after his indenture to a Solicitor, to pass three Professional examns. The First Professional examn. consists of Part 1, Book-keeping, Trust Accounts, and Income Tax Law, and Part 2, Constitutional Law. This examn. may be passed at any time after the commencement of apprenticeship. The Second Professional examn. may be passed at any time after the First Professional has been passed, the subjects being, (*a*) Outlines of Roman Law, and (*b*) Elementary Jurisprudence. The Third

Professional examn., Part 1 covers the Law of Scotland, Civil and Criminal, excepting the Law of Trusts and Succession. This cannot be taken before passing the Second Professional or sooner than 2 yrs. before the expiry of the apprenticeship. Attendance at the class of Scots Law is required prior to the examn. Part 2 of Third Professional examn. includes Conveyancing, Law of Trusts and Succession, Court of Session and Sheriff Court Practice, Criminal Procedure and the Principles of Evidence. This can be taken after the Apprentice has passed Part 1. Attendance at the class of Conveyancing is essential prior to the examn. The period of apprenticeship is 5 yrs., but where the Apprentice holds a degree in Law or Arts of a Univ in Gt. Britain, and in some other cases, the period is reduced to 3 yrs. The duty for admission to practise before the Sheriff Court is £55 and before the Court of Session, £85. Various fees have to be paid in the course of apprenticeship and for the examns. Any further information may be obtained from George S. Donaldson, S.S.C., 8 Albany Street, Edinburgh.

The above regulations came into force on January 1, 1938.

THE BAR OF NORTHERN IRELAND

Admission to the Bar of N. Ireland is controlled by the Honourable Society of the Inn of Court of Northern Ireland, Royal Courts of Justice, Belfast. The course covers a period of 3 yrs. commencing with Michaelmas Term. A student must have passed a Univ. Matricn. Examn. (incl. Latin). He must keep 3 Terms Commons in one of the 4 Inns of Court in London. Except where expressly provided otherwise he shall attend each yr. a continuous and complete course of lectures at the Queen's Univ., Belfast, and shall pass the examns. connected therewith. In his 2nd or 3rd yr. he may attend the lectures of the Profs. of the Council of Legal Education in London instead of one of the yrs. at the Queen's Univ. A student of an approved Univ. in Gt. Britain and Ireland may, with the approval of the Benchers previously obtained, be given credit for his first yr,'s legal education by attending a complete course for 1 yr. in the Univ. Law School. Before presenting his Memorial for Call he must pass in Sections I., II., III., V., and VI., and in Company Law (Section IV.) of Pt II. (The Final Examn.) for Call to the Bar held under the Council of Legal Education in England. No student shall be called to the Bar of N. Ireland unless he shall possess an Arts degree or some other Univ. degree which, in the opinion of the Benchers, is equivalent thereto.

Fees. Before admission as student, 1 guinea for Form of Memorial. Upon presentation of Mem., Stamp duty £25, and fee of £25 to the Inn. Univ. Lectures, 15 gs. p.a. Before admission to degree of Barr.-at-Law, Memorial stamp duty £50, fee to Inn £50. On admission, 1 guinea for Certificate of Admission. In addition there are fees upon joining an English Inn and 2½ gs. on entering for Final Examn.

THE BAR OF EIRE

Students are admitted into the Honourable Society of the King's Inns and to the degree of Barrister-at-Law under rules adopted by the

Benchers and revised in July 1938 which are obtainable from the Under-Treasurer, The King's Inns, Dublin. A candidate for admission as a student must present a memorial addressed to the Benchers in the prescribed form with a certificate signed by a practising barrister of 10 years' standing. A special form of memorial is required if the candidate is not a citizen of Eire or of Gt. Britain or Northern Ireland.

Students (other than those who have passed a public examn. at a recognized University or any of the approved examns., or any other examn. recognized by any Univ. in Ireland as equivalent to its matricn. examn. and including Latin, or are students of the Inns of Court in England) are required to pass a preliminary examn. in (*a*) Irish or English, (*b*) Latin, (*c*) Irish History and English History.

Non-university students must complete a course of legal education during 4 yrs., of which the first 2 consist of a course to be taken at one of the Constituent Colleges of the Nat. Univ. of Ireland or in Trinity Coll., Dublin, or in Queen's Univ., Belfast. The second 2 yrs. consist of a continuous course of lectures delivered at the King's Inns, Dublin.

The course for Univ. students is 3 yrs. only, of which 1 yr. is taken at one of the above-named Colleges and the two subsequent yrs. consist of the continuous course of lectures given at the King's Inns. Term examns. are held at the end of each term and Annual examns. at the end of each year. A Final Examn. for admission to the Bar is held at the end of the continuous course.

Students who have been pupils in the chambers of a Barrister in England for 1 yr. may be excused 1 yr.'s course. There are 4 terms of 20 days each. Every student must keep 12 Terms Commons in the Dining Hall of the Society or may substitute for 4 of such Terms, 4 Terms in one of the Four Inns of Court in London. Prizes are awarded at the examns. held at the end of each year of the continuous course.

Students who have passed the Final Examn. may compete for the John Brooke scholarship and other prizes. Every person who was not over the age of 15 yrs. on Oct. 1, 1929, must in order to be admitted to practise in the Courts of Eire comply with the provisions of the Legal Practitioners (Qualification) Act, 1929, as regards knowledge of Irish.

Solicitors and Writers to the Signet are admitted to the Bar on complying with the provisions of Rule 29.

English Barristers of three years' standing who obtain a certificate from the Attorney-General or Solicitor-General of England may be called to the Irish Bar upon keeping three terms without examn. Irish Barristers may be called to the English Bar upon similar reciprocal terms.

Fees. On memorial, 1 guinea. On admission as a student, Stamp Duty of £25 and fee to the Society, £22 : 10s. Annual fee for education course, £15 : 15s. Fees payable on call to the Bar, Stamp Duty of £50 and fee to the Society, £40.

SOLICITORS IN EIRE

With the exception of candidates who have passed certain Univ. and school examns., all intending apprentices are required to pass a prelim. examn. (held in April and Oct. in each yr.) before being bound under

indentures, the course for which is published 1 yr. in advance. Candidates, who must have attained the age of 16, must lodge with the Secretary of the Society, *at least* 3 wks. before the appointed day of the examn., a notice, petition, and memorial, together with baptismal certif. and fee of £10. All intending apprentices who were under the age of 15 on Oct. 1, 1929, must obtain a certif. from the Inc. Law Society of Ireland that he or she has passed a first examn. in Irish, and all apprentices must pass a second examn. in Irish within 1 yr. before being admitted. These examns. in Irish are held by the Inc. Law Society thrice yearly. The period of service under indentures varies from 3 to 5 yrs, the reduction being made for graduates of certain Univs.

Apprentices other than those who have been barristers in Ireland must attend two years' lectures by professors of the Society in Common Law, Equity, Real Property Law, and Conveyancing. Fees, 6 gs.

The Intermediate Examn., held in June and Oct., must be taken by all apprentices other than graduates in Laws of Irish and certain British Univs.

The Final Examn., held in April and Oct., fee £10, must be taken by all apprentices before admission as a solicitor. Admission is not granted to candidates under 21 yrs. of age. Fees, £25 stamp duty, and 5 gs. payable to the Society.

Further particulars from the Secretary, Incorporated Law Society, Solicitors' Buildings, Four Courts, Dublin, N.W.8.

II.

MEDICAL AND DENTAL QUALIFICATIONS AND STUDIES

A. MEDICAL QUALIFICATIONS

Address of the Registrar, General Medical Council—44 Hallam St., Portland Place, London, W.1. *Telegrams*—Genmedicum, Wesdo, London. *Addresses of Registrars of Branch Councils*—44 Queen St., Edinburgh, 2; 35 Dawson St., Dublin.

No person is recognized by law as a legally qualified medical practitioner in the United Kingdom of Great Britain and Northern Ireland whose qualification is not *registered* in the Medical Register kept by the *General Medical Council*. Below are lists of the qualifications so registrable—obtainable (*a*) in Great Britain and Northern Ireland and in Eire, (*b*) in the British Empire outside the United Kingdom and Eire, (*c*) in foreign countries. The document presented in evidence of any of these must show that the possessor has passed a qualifying examn. in Medicine, Surgery, and Midwifery. For registration in the Colonial or Foreign list it is essential that the qualification be first registered in the Province, State, etc., in which it was obtained.

Position of Doctors with Qualifications Granted in Eire. Persons who obtain recognized qualifications in Eire can register there, and should do

so if they desire to practise in the Dominion. They are also entitled to registration on the Medical Register if they desire to practise elsewhere than in the Dominion.

Position of Doctors with British Qualifications in Eire. Persons on the British Medical Register can register and practise on payment of the requisite fee of £5 *plus* 1s. for stamp.

(*a*)

Royal College of Physicians, London—F., M., L., R.C.P. Lond.
Royal College of Surgeons of England—F., M., R.C.S. Eng
Royal College of Physicians of Edinburgh—F., M., L., R.C.P. Edin.
Royal College of Surgeons of Edinburgh—F., L , R.C.S. Edin.
Royal Faculty of Physicians and Surgeons of Glasgow—F., L., R.F.P.S. Glas.
Royal College of Physicians of Ireland—F., M., L., L.M., R.C.P. Irel.
Royal College of Surgeons in Ireland—F., L., L.M., R.C S. Irel.
Apothecaries' Soc. of London—L.M.S.S.A. Lond.
Apothecaries' Hall, Dublin—L.A.H. Dub.
Each Univ. in Great Britain or Ireland—M.D. (Ox. D.M.), M.B. (Ox., B.M.), Ch.B. or B.Ch. or B.S. (Camb. B.Chir.), Ch.M. or M.Ch. or M.S. or C.M. (Camb. M.Chir.) or M.Ch. (Orth.) L'pool ; Dub. : L.Med., L.Ch. ; M.A.O. (Dub , N.U.I., Q.U. Belf.).
Registrable Diplomas for proficiency in Sanitary Science, Public Health or State Medicine, which may be added to qualifications already registered, but do not admit primarily to the Register:
D.P.H. (R.C.P.S. Engl., R.C.P.S. Edin. and R.F.P.S. Glas., R.C.P.S. Irel., and those Univs. of Great Britain and Ireland granting the Diploma).
B.Sc. (P.H.) Birm. (no longer awarded).
B.Hy., D.Hy. Durh.
B.Sc. (P.H.), D.Sc. (P.H.) Edin. (no longer awarded).
B.Sc. (P.H.), D.Sc. (P.H.) Glas.

A period of not less than 2 yrs. must elapse between the attainment of a medical qualification and the grant of a Diploma.

A registered medical practitioner is not eligible for appointment as Med. Officer of Health in any county, district, or combination of districts of a population of 50,000 or upwards unless he is registered as the holder of a Diploma in San. Sc., Public Health, or State Med.

(*b*)

Australia. M.B., M.D. Syd., Adel., or Melb. ; Ch.M. or M.S., B.S. Syd. ; B.S., M.S. Adel. ; B.S. Melb.
Burma. M.B., B.S. Rangoon, if granted on or after Dec. 10, 1936.
Canada. M.D. Alberta ; M.D. C.M. Dal. ; M.D., or M.D. C.M. Man. ; L.M.S. Nova Scotia Provl. Med. Board, *or* Prince Edward Island Med. Council.
M.C.P. & S. Alta., *or* Man.
Ceylon. L.M.S. Ceylon Med. Coll.
Hong-Kong. M.B., B.S., M.D., M.S. Hong-Kong.

India.
M B., B.S. All., if granted between Nov. 1914 and May 1921.
L.M.S., M.B., B.S., M.D., M.S. Bom.
L.M.S , M.B., M.D., M.S., M.O. Calc. (except qualifications granted between Nov. 30, 1924, and May 12, 1928, or between Feb. 25, 1930, and Oct. 15, 1936).
M.B., C.M., M.B., B.S., M.D. Mad.
L.M.S., M.B., B.S., M.D., M.S. Panj.
M.B., B.S. Patna (if granted on or after May 11, 1935).
M.B., B.S., Lucknow
Malta. M.D. Malta.
Newfoundland. L.M.S. Nfld. Med. Board.
New Zealand. M.B., Ch.B., Ch.M., M.D. N.Z.
South Africa.
M.B., Ch.B. S. Africa.
M.B., Ch.B., M D., Ch.M. Cape Town.
M.B., B.Ch., M.D , Ch.M., U. Witwatersrand.
Straits Settlements. L.M.S. Singapore Med. Coll.

(*c*)

Degrees of (i.) Doctor of Med. and Surg. of all the Royal Italian Univs. ; (ii.) Bachelor of Med. and Doctor of Med. of the Imperial Univs. of Japan ; and Bachelor of Med. of any Govt. or Prefectural Special Med. Coll. or of a private special Med. Coll. designated by a Minister of Educn. of the Empire of Japan.

B. ADMISSION OF MEDICAL STUDENTS TO SCHOOLS OF MEDICINE

Any application to be registered, on or after September 1, 1938, as a medical student should be addressed to the Dean or other appropriate authority of the School of Medicine to which the applicant desires to be admitted. Students will no longer, as heretofore, be registered by the General Medical Council on their admission to Schools, and it will rest with the authorities of Schools and of Licensing Bodies to deal at their discretion, without further reference to the Council, with applications for registration.

From November 1, 1938—that is, after the beginning of the first term of the academical year 1938–39—applications are to be considered by authorities of Schools and of Licensing bodies in the light of the Resolutions of the Council in regard to Professional Education which came into operation on November 1, 1938, and of the Recommendations of the Council in regard to the Registration of Medical Students, incorporating Resolutions in regard to general education and preliminary scientific subjects which came into operation on the same date.

The relevant provisions of the Recommendations, which supersede the Regulations of the Council in regard to the Registration of Medical Students (last revised in June 1934), are as follows :

The Council recommend that, subject to such exceptions as may from time to time be allowed by the authorities of Schools of Medicine and of Licensing Bodies, every medical student, before the commencement of

the medical curriculum proper, should be registered under the following conditions.

1. Before registration as a medical student, every applicant should furnish evidence that he has attained, or will within three months attain, the age of 18 years.

2. Before registration as a medical student every applicant should be required to have passed (i) a recognized preliminary examination in general education, (ii) an additional examination, or additional examinations, conducted or recognized by one of the Licensing Bodies.

PRELIMINARY EXAMINATION IN GENERAL EDUCATION

3. The minimum standard of the preliminary examination in general education required of applicants should be that of a university matriculation or entrance examination in the faculties of arts or pure science. If in other faculties, the examination should be of the same standard, and should include the subjects specified in section (1) of the following recommendation.

4. (1) The Council have recognized as complying with the Recommendations the following University Examinations which admit to the Faculties of Arts or Pure Science, or, *subject to the condition specified below*, to other Faculties: the Matriculation Examinations of the Queen's University of Belfast, the Universities of Dublin, London, Wales, and the National University of Ireland; the Previous Examination of the University of Cambridge; Responsions at the University of Oxford; and the Entrance or Preliminary Examination of the Scottish Universities.

The condition specified in respect of faculties other than arts or pure science is that: The certificate shall bear evidence that the candidate has passed, on the matriculation or entrance standard, in the following subjects: (*a*) English; (*b*) Mathematics, Elementary; (*c*) a language other than English; (*d*) a fourth subject, as defined in the regulations of the particular examination, to be chosen from the subjoined list: history, geography, botany, physical science, natural science; Latin, Greek, French, German, or other language accepted by the University for the purpose of matriculation or entrance.

(2) Subject to the condition specified in section (1) of this Recommendation, the Council have recognized as complying with the Recommendations those of the examinations conducted by recognized authorities in Great Britain and Northern Ireland, or in Eire, which are accepted by any one or more of the Universities of Great Britain and Northern Ireland, or of Eire, under the conditions prescribed by them as to "credits" or "grades," as qualifying for entrance or matriculation. When a School Certificate is presented the credits in the four required subjects should have been obtained at not more than two sittings.

(3) The Council will continue to recognize as complying with the Recommendations certain examinations other than those which are mentioned in section (2) of this Recommendation. Recognition will not be extended under this section to any examination unless the Council are satisfied (*a*) that in scope and standard it is equivalent to a recognized matriculation or entrance examination of a University of Great Britain and Northern Ireland, or of Eire; (*b*) that it fulfils the condition

specified in section (1) of this Recommendation; and (*c*) that the examination has been completed at not more than two sittings. The examinations so recognized are: the College of Preceptors (England), senior certificate (with credit); the Educational Institute of Scotland, preliminary medical certificate; Irish Royal Colleges of Physicians and Surgeons, preliminary examination in general education.

(4) Subject to the condition specified in section (1) of this Recommendation, the Council will recognize as complying with the Recommendations such examinations of universities in British India, in British Dominions other than Eire (with respect to which provision is made in the foregoing sections of this Recommendation), in British Colonies, and in foreign countries, as are accepted by any one or more of the Universities of Great Britain and Northern Ireland, or of Eire, as qualifying for entrance or matriculation.

ADDITIONAL EXAMINATION OR EXAMINATIONS

5. The subjects and scope of the additional examination or examinations which applicants should be required by the Licensing Bodies to have passed before registration as medical students are as follows: (1) For all applicants, chemistry (theoretical and practical), the elementary principles of general and physical chemistry, and of the chemical combination of elements, including carbon. (2) For all applicants, physics (theoretical and practical), the elementary mechanics of solids and fluids, the elements of heat, light, sound, electricity and magnetism. (3) For applicants who have received their instruction in chemistry and physics before entering universities, university colleges, or medical schools, one *or* two subjects of general education other than chemistry, physics, or biology, at a standard higher than that of the recognized preliminary examination in general education.

The standard of the additional examination in a subject or subjects of general education should be approximately that required in a subsidiary subject offered for the Higher School Certificate at the examinations specified in section (2) of the previous Recommendation.

Note.—It should be open to applicants to offer themselves for examination in the subject of biology either before or after they are registered as medical students.

C. RECIPROCAL RECOGNITION

Any Dominion or part (*e.g.* State or Province) of a Dominion, Colony or foreign country in which the registrable medical qualifications specified under A (*b*), (*c*) are granted, is required as a condition of the recognition by the General Medical Council of these qualifications to afford to the registered medical practitioners of the United Kingdom such privileges of practising within its borders as to His Majesty may seem just. There are other parts of the Empire, *e.g.* Tasmania, which recognize British qualifications, but in which at present no qualifications are granted.

D. DENTAL QUALIFICATIONS

Under the Dentists Act, 1921, no person who is unregistered can practise or hold himself out as being prepared to practise dentistry without rendering himself liable to prosecution.

The Dental Board of the United Kingdom was constituted by the Dentists Act, 1921, and is charged with the duty of dental registration. The address of the Registrar is 44 Hallam St., London, W.1. *Telegrams* —Dentiboard, Wesdo, London.

The following lists show (*a*) the registrable qualifications obtainable in the United Kingdom of Great Britain and Northern Ireland and in Eire, (*b*) the qualifications granted elsewhere in the Empire which have been recognized generally as registrable.

(*a*)

Royal College of Surgeons of England—L.D.S.R.C.S. Eng.
Royal College of Surgeons of Edinburgh—H.D.D., L.D.S.R.C.S. Edin.
Royal Faculty of Physicians and Surgeons of Glasgow—H.D.D., L.D.S.R F.P.S. Glas.
Royal College of Surgeons in Ireland—L.D.S.R.C.S. Irel.
Univ. of Birmingham—M.D.S., B.D.S., L.D.S. U. Birm.
Univ. of Bristol—M.D.S., B.D.S., L.D.S. U. Brist.
Univ. of Durham—M.D.S., B.D.S., L.D.S. U. Durh.
Univ. of Leeds—M.Ch.D., B.Ch.D., L.D.S. U. Leeds.
Univ. of Liverpool—M.D.S., B.D.S., L.D.S. U. Lpool.
Univ. of London—B.D.S., M.S. (Dent.) U. Lond.
Victoria University of Manchester—M.D.S., B.D.S., L.D.S. V.U.Manc
Univ. of Sheffield—M.D.S., B.D.S., L.D.S. U. Sheff.
Univ. of St. Andrews—M.D.S., B.D.S., L.D.S. U. St. And.
Univ. of Dublin—M.D.Sc., B.D.Sc., L.D.Sc. (no longer awarded) U. Dubl.
National Univ. of Ireland—M.D.S., B.D.S. N.U. Irel.
Queen's Univ. of Belfast—M.D.S., B.D.S., L.D.S. Q.U. Belf.

(*b*)

Victoria, Australia—L.D.S. Vict.
Univ. of New Zealand—B.D.S. U. N. Zealand.
Univ. of Adelaide—B.D.S., D.D.Sc., U. Adelaide.*
Univ. of Sydney—B.D.S., M.D.S., D.D.Sc. U. Sydney.
Univ. of Melbourne—B.D.Sc., D.D.Sc. U. Melb.
Univ. of Witwatersrand, B.D.S., D.D.S. U. Witwatersrand.
Univ. of Malta—D.D.S. U. Malta.

E. ADMISSION OF DENTAL STUDENTS TO SCHOOLS OF DENTISTRY

Any application to be registered, on or after September 1, 1938, as a dental student should be addressed to the Dean or other appropriate authority of the School of Dentistry to which the applicant desires to be admitted. Students will no longer, as heretofore, be registered by the General Medical Council on their admission to Schools, and it will rest with the authorities of Schools and of Licensing Bodies to deal at their discretion, without further reference to the Council, with applications for registration. On and after November 1, 1938—that is to say, after

* Admissible only in the cases of persons who have complied with the Regulations which came into force in 1928.

the beginning of the first term of the academical year 1938–9—applications are to be considered by the authorities of Dental Schools and of Licensing Bodies in the light of the Recommendations of the Council in regard to the Registration of Dental Students, incorporating Resolutions in regard to General Education and Preliminary Scientific subjects, which came into operation on November 1, 1938, and supersede the Regulations of the Council in regard to the Registration of Dental Students (last revised in June 1934); and of the Recommendations of the Council as to the Course of Study and Examinations to be required of Candidates for Licences in Dentistry or Dental Surgery, which came into operation on October 2, 1933, and were amended by the Council on May 24, 1938, so as to bring them into harmony with the Recommendations in regard to the registration of students.

The relevant provisions of the revised Recommendations as to the Course of Study and Examinations to be required of candidates for qualifications in dentistry are as follows:

1. That, subject to such exceptions as may from time to time be allowed by the authorities of Schools of Dentistry and of Licensing Bodies, every dental student at the commencement of his studentship should be registered in the same manner as a medical student, and under the same conditions with respect to age, preliminary examination in general education, and additional examination or examinations; provided that it should be open to applicants for registration as dental students to commence professional study either at a recognized Dental Hospital or School or as pupils of a registered dental practitioner.

2. That, with respect to applicants who have served an apprenticeship in dental mechanics, an applicant who has served two or more years subsequent to his attaining the age of 17 as a bona fide apprentice in dental mechanics with a registered dental practitioner should, if the Licensing Bodies think fit, be allowed to antedate his registration for a period not exceeding six months.

3. That before registration as a dental student every applicant should furnish evidence that he has attained, or will within three months attain, the age of 18 years.

4. That before registration as a dental student every applicant should be required to have passed: (1) A recognized preliminary examination in general education, which should be the same as that required for medical students. (2) An additional examination, or additional examinations, conducted or recognized by one of the Licensing Bodies, which should be the same as the examination or examinations required for medical students.

Schools at which Dental Study may be commenced: Birmingham D. Hospl.; Bristol, Royal Infirmary, Genl. Hospl.; Dublin, D. Hospl. of Ireland; Dundee D. Hospl.; Edinburgh D. Hospl.; Glasgow D. Hospl.; Leeds D. Hospl.; Liverpool D. Hospl.; London, Guy's Hospl. D. School, King's Coll. Hospl. D. School, London Hospl. D. School, Univ. Coll. Hospl. D. School, Royal D. Hospl.; Manchester D. Hospl.; Newcastle upon Tyne D. Hospl.; Sheffield Royal Hospl.; Roy. Coll. of Surg. in Ireland; D. Department of any Univ. of the U.K.

F. POSTGRADUATE MEDICAL STUDIES

British Postgraduate Medical School

The Athlone Committee of 1921, which was appointed to investigate the needs of medical practitioners and other graduates for further education in medicine in London, reported that the existing provision was widely scattered and lacked adequate organization, and that there was an urgent need for the institution of a postgraduate medical school which should be the centre of a great teaching organization, which would avail itself of London's unique supply of clinical material. In this organization there would be room for all who had a useful contribution to make—the existing special hospitals, medical schools, research institutes and the like.

Later Committees carried on the development of this scheme; their members including the Presidents of the Royal Colleges of Surgeons and Physicians, representatives of the University of London, of the great London teaching hospitals, of the British Medical Association, and of the Fellowship of Medicine, while among their Chairmen were two successive Ministers of Health, Mr. Neville Chamberlain and Mr. Arthur Greenwood.

The L.C.C. Hospital at Ducane Rd., Hammersmith, was selected as the most suitable for association with the School. The School buildings, which adjoin the hospital, have been provided at the cost of H.M. Govt. The L.C.C. has spent an equivalent sum on those developments and adaptations of the hospital which were considered desirable in view of its association with the School.

The British Postgraduate Medical School receives maintenance grants from H.M. Government. It is a recognized School of the Univ. of London (see p. 216) and the Governing Body is presided over by Sir John Caulcutt, K.C.M.G. A Royal Charter was granted in 1931 and the School was opened by H.M. King George V. on May 13, 1935.

There are at present four Depts. in the School, viz. Medicine, Surgery, Obstetrics and Gynæcology, and Pathology. Each Dept. is in charge of a distinguished Professor and a specialist staff working under his direction.

The School provides for the further education of all Univ. medical graduates and all other practitioners holding qualifications registrable in the United Kingdom.

The hospital has 462 beds. The present School buildings provide the necessary lecture theatres, library and museum. They also include laboratories for research work and for Bacteriol., Morbid Histol. and Biochem. A second block provides laboratories for the Medical, Surgical and Obstetrical Depts. and accommodation for the Professorial staff.

Attached to the hospital is a large Radiological Dept. and accommodation for electrocardiography, and for observations on basal metabolism.

Courses of lectures and demonstrations on special subjects will be provided during the year, but most of the instruction in the School is the ordinary hospital practice. Students have free access to the clinical material of the hospital and attend the daily clinics given by the staff.

A course for the Diploma in Clinical Pathology commences annually in October.

Whole time professorial units have been established in all four Depts. of the School, and in addition eminent teachers are invited to give regular clinics and to assume charge of a proportion of the beds.

For post-graduate students who hold qualifications registrable in the U.K. there are a large number of resident posts and, in addition, Clinical Assts. may be appointed from selected students. Facilities will also be provided for graduates who desire to undertake approved research work. An information bureau is maintained at the School and post-graduate medical students can obtain advice and information regarding the opportunities for postgraduate work in London.

Further information may be obtained from the Dean of the School, Ducane Road, Shepherd's Bush, W.12. *Telephone*—Shepherd's Bush 1260. For the convenience of postgraduate students who are strangers to London a sub-office has been opened at the London School of Hygiene and Tropical Medicine, Keppel St., W.C.1. *Telephone*—Museum 0943.

In London, in addition to the above, the General Hospital Medical Schools provide to a limited extent for qualified practitioners. The *West London Postgraduate College* at the West London Hospital, Hammersmith, with a staff of regular lectrs. and demrs., the *North-East London Postgraduate College* at the Prince of Wales' Hospital, Tottenham, and the *London School of Clinical Medicine* at the Seamen's Hospital, Greenwich, as well as certain special hospitals, have arrangements for postgraduate work.

The *Fellowship of Medicine and Postgraduate Medical Assn.* (1 Wimpole St., London, W.1), formed in 1918, promotes and advertises the provision of facilities for postgrad. med. study in London. In co-operation with 50 London general and special hospitals, postgrad. courses in all the special depts. of med. science are arranged, as well as short intensive courses at regular intervals during the year, including special evening courses for the M.R.C.P. and F.R.C.S. Primary and Final examns. Information is given on postgrad. study in Gt. Britain and elsewhere.

Postgraduate courses are also provided elsewhere, notably at Liverpool, Manchester, Edinburgh and Glasgow.

For information as to open postgraduate scholarships, fellowships, etc., *see* Appendix II.

ROYAL COLLEGE OF PHYSICIANS OF LONDON AND ROYAL COLLEGE OF SURGEONS OF ENGLAND

Address of the Secy., Examining Board in England, 8-11 Queen Sq., London, W.C.1. Applications for admission to the Board's examns. should reach the Secy. at least 21 days beforehand. Agency for the sale of Books of Questions set in past years (9d. each, post free 10d.; for 1928 and subsequent years, 1s., post free 1s. 1d.)—Taylor & Francis, Red Lion Court, Fleet St., London, E.C.4.

Examns. for the Diplomas of *Licentiate* of the R.C.P. of London and MEMBER of the R.C.S. of England (L.R.C.P., M.R.C.S.) are held ordinarily in Jan., April, July, and Oct. Candidates must have passed a Prelim. examn. in genl. edn. recognized by the Board, and must have passed, before commencing the 5 years' curriculum of professional study, the Pre-Medical examn. in Chemistry, Physics and Biology conducted or recognized by the Board. Before admission to the Professional examns. (known as the First and Final) they are required to produce certificates of having pursued the prescribed courses of study and practice. The First Professional examn. (fee, 10 gs.) comprises: Part I., (*a*) Anat., including Histol. and Embryol., (*b*) Physiol., including Biochem.; Part II., Pharmacol. and Materia Medica. A candidate who has passed an examn. in the subjects of Part I. or of either section of Part I. and of Part II. in the examn. for the degree in Medicine conducted by a Univ. recognized by the Board will be exempted from further examn. in such subject or subjects. The subjects of the Final Professional examn. are: Part I. (fee, 4 gs.), Pathol. (including Morbid Anat., Morbid Histol., Clinical Path.), and Bacteriol.; Part II. (fee, 10 gs.), Medicine, including Med. Anatomy, Forensic Med. and Public Health; Part III. (fee, 10 gs.), Surgery, including Surg. Anat. and the use of Surg. Appliances; Part IV. (fee, 6 gs), Midwifery and Gynæcol.

Students of recognized Univs. in England, Scotland, and Ireland, who have passed examns. for a degree in Medicine at their Univs. in the subjects of the First Professional Examn., may enter for a Part, or Parts, of the Final at the expiration of 27 months after passing in Anat. and Physiol., but cannot complete until 57 months of professional study, including 33 months clinical work, have been completed after the date of passing in Anat. and Physiol. on production of the required certificates.

Members of certain recognized Indian, Dominion, Colonial, and Foreign Univs. are admissible to the examns. under special conditions, particulars of which are set out in the Regns. of the Board. The Board also grants Diplomas in Public Health, in Psychological Med., in Ophthalmic Med. and Surg., in Tropical Med. and Hyg., in Laryngol. and Otol., in Med. Radiol., in Anæsthetics and in Child Health. Candidates must hold a Medical qualification registrable in the U.K., or be Graduates in Medicine of a recognized Indian, Dominion, Colonial, or Foreign Univ.

Most of the Universities in the U.K., except Oxford and Camb., admit students who have not matriculated but have satisfied the Examining Board requirements to study for the L.R.C.P., M.R.C.S.

For admission to the *Membership* of the R.C.P. (fee, 40 gs., less Licence fee, if any, already paid) the minimum age is 23, and a candidate must satisfy the Censors Board as to his moral character and conduct and pass an examn. of such nature and extent as may be determined by the Board. If he is not a Licentiate of the College, he must have obtained a Univ. degree of Doctor or Bachelor of Med. which is registrable by the General Medical Council of the United Kingdom. A candidate who has attained the age of 35, and can produce testimonials satisfactory to the Board, may submit published work done by himself in any branch of Medical Science or in General Literature, and if the Censors

Board decide that such work is of sufficient merit to excuse the candidate the whole or part of the usual Examn. the Board may modify the Examn. as they think fit.

Fellows are elected annually from the ranks of the Members of at least 4 yrs.' standing. (For particulars of the Membership of the R.C.P. application must be made direct to the Secretary, Pall Mall East, London, S.W.1.)

Examns. for the *Fellowship* of the R.C.S. are held twice yearly in May and Nov. Fees, first examn., 8 gs., 2nd, 15 gs., admission to Fellowship (minimum age, 25), 10 gs., for those who are M.R.C.S. Eng. and 30 gs. for those who are not M.R.C.S. The First examn. (in Anat. and Physiol.) is open to M.R.C.S. Eng., and, on production of certain certificates involving work extending over 60 weeks, to (*a*) candidates who have passed the First examn., Pt. I., for the L.R.C.P. Lond., M.R.C.S. Eng., and (*b*) members of Univs. recognized under the Regns. of the Board The Second examn (in Surgery, including Surg., Anat., and Path.) is open to candidates who have passed the First Examn. and who are *either* (*a*) Members of the Coll. who can produce satisfactory evidence of having been engaged in the study (or study and practice) of the profession for not less than 6 yrs., *or* (*b*) Grads. of 4 yrs.' standing in Med. and Surg. in a Univ. recognized by the Council for the purpose. All candidates must have held for not less than 6 consecutive months a post of Resident House Surgeon, or other responsible post in charge of general surgical patients in the wards of a genl. hospital recognized by the Council for the purpose.

All the above examns. and Diplomas are open to Women, subject to the provisions of the Medical Act, 1876, and Bye-laws of the Colleges. (For particulars concerning the Fellowship of the R.C.S. apply to The Director of Examinations, 8/11 Queen Square, London, W.C.1.)

A *Macloghlin Scholarship*, tenable for 5 yrs., value £120 p.a., is awarded annually in July. Open to candidates 17 to 22 yrs. of age qualifying for M.R.C.S. who have not passed a recognized examn. in Chemistry and Physics.

A *Begley Studentship*, tenable for 3 yrs., value £20 p.a., is awarded triennially in April. Next award in 1939. Open to candidates at the examn. in Anatomy and Physiology of the Examining Board in England held in April of the year of award.

Applications to Secretary, Royal College of Surgeons, Lincoln's Inn Fields, London, W.C.2.

ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH, ROYAL COLLEGE OF SURGEONS OF EDINBURGH, AND ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW

Joint examns., open alike to men and women, are held in Edinburgh (usually in Oct., Jan., and July) and in Glasgow (usually in March-April) for the *Diplomas in Medicine, Surgery, and Midwifery* of these three bodies. The following are the Inspectors of Certificates—in

Edinburgh, The Registrar, 18 Nicolson St.; in Glasgow, The Registrar, Faculty Hall, 242 St. Vincent St.—at least two weeks before.

Examns. for the *Diploma in Public Health* (fee, 12 gs. or for each Part, 6 gs) are held early in Oct. in Edinburgh and early in March in Glasgow.

Address—The Registrar, Triple Qualification, 18 Nicolson St., Edinburgh.

The Royal College of Physicians of Edinburgh may admit to examn. for its single qualification—*Licence*—any candidate on the Medical Register. Fee, 15 gs. Examns. held every month, except Sept. and Oct. Admission to *Membership* (minimum age, 24) is by election. Candidates must hold a Licence of a British or Irish Coll. of Phys. or Degree in Med. of a Univ. approved by the Council, and pass the prescribed examn. unless exempted by the Council from the whole or part of it in consideration of work in any sphere of Med. adjudged to be of high distinction. Fee, 35 gs. A member of 3 yrs.' standing may be elected *Fellow*. Fee, 38 gs., and stamp duty, 25 gs. The College has a Library of 100,000 vols. and Research Laboratory.

Address—The Secretary, Royal College of Physicians, Edinburgh, 2.

For admission to the *Fellowship* of the Royal College of Surgeons of Edinburgh candidates must pass an examn. (fee, £20, plus £30 by those who pass. £10 is remitted to Licentiates, in consideration of the fees already paid) in: (*a*) Principles and Practice of Surgery, including Surg. Anat.; (*b*) Clinical S.; (*c*) one of the following—including clinical or practical as well as written and oral tests—S. Path. and Operative S.; Ophth. S; Aural, Nasal, and Laryng. S.; Obst. S.; Gyn.; Adv. Anat.; Dental S. Qualifications for admission to the examn. (which is now open to women): minimum age, 25 yrs.; 2 yrs.' study and practice of the profession after obtaining one of the following, or other approved qualifications in S.: those of R.C.S. Eng., R.C.S.I., R.F.P.S. Glas.; Surgical degrees of the Univs. of the U.K. and Canada, Adelaide, Melb., Syd., N.Z.; L.M.S.S.A. Lond., and L.A.H. Dub. registered under the Med. Act, 1886, Bombay, Lucknow, Madras, Panjab, and such foreign qualifications as may be approved by the President's Council.

Candidates may not appear more than 3 times at the examns. except by express permission of the President's Council.

At the final consideration of the candidate's petition for admission to the Fellowship election is determined by ballot.

Address—The Secretary, Royal College of Surgeons, 18 Nicolson St., Edinburgh.

The Royal Faculty of Physicians and Surgeons grants, after examn., a Fellowship which is registrable by the General Medical Council as an additional qualification. For the Fellowship *qua* Physician or the Fellowship *qua* Surgeon, the candidate must pass in Medicine or Surgery as the Primary Subject and an additional subject cognate with Medicine or Surgery respectively must also be taken at the same examn. Candidates are required to be approved by the Council before admission to the Examn. Successful Candidates are later balloted for election by the Faculty and, if elected, are duly admitted *qua* Physician or *qua* Surgeon.

The fee for admission to the Fellowship is £50, or for Licentiates of the Faculty, £40. Examns. are held quarterly.

Examns. for the Single Licence of the Faculty, for the Higher Dental Diploma and for the Licence in Dental Surgery are held at regular intervals.

The Regulations respecting the above examns. together with dates of examns. may be obtained on application to the Secretary, Royal Faculty of Physicians and Surgeons, 242 St. Vincent Street, Glasgow, C.2.

ROYAL COLLEGE OF PHYSICIANS OF IRELAND AND ROYAL COLLEGE OF SURGEONS IN IRELAND

Address of Committee of Management of the Conjoint Board—Royal College of Surgeons, St. Stephen's Green, Dublin.

Professional examns. for the *Licences in Medicine, Surgery, and Midwifery* are held by the Conjoint Board in spring, summer, and autumn. Candidates must comply with the requirements of the Gen. Med. Council (v. *supra*) *re* Prelim. examn. and Registration of students. The First Professional Examn. (fee, 15 gs.), namely, 5 gs. on entering for Biol. and 10 gs. on entering for Applied Chem., Anat. (including Embryol.) and Physiol. (including Biochem., Histol. and Psychol.). Second Professional Examn. (fee, 9 gs.), Mat. Med., Pathol. (including Morbid Anat., Clinical Pathol. and Bacteriol.), Ophthalmol. and Aural Surgery. Third or Final Professional Examn. (fee, 6 gs.), Med. (including Forensic Med., Hygiene and Pub. Health), Surgery and Midwif. and Gynæcol. A candidate may enter for all the subjects of this Examn. together, or any one or more separately.

Institutions recognized for instruction in subjects of the First examn. include numerous schools in the U.K.

Candidates who have passed in any of the required subjects at examns. conducted by any Licensing Body recognized by the R.C.P. and R.C.S. may be exempted from further examn. therein.

Examns. for the *Licences* of the R.C.P.I. are held early in Feb., May, and Nov., and at specially appointed times. That for the *Licence in Medicine* (fee, 15 gs., or for Special examn., 20 gs.) comprises Practice of M., Clinical M., Path., Med. Jurispr., Midw., Hygiene, Therap. It is open to a Med. Practitioner registered by the Gen. Med. Council or on the Register of Saorstát Éireann if the Coll. be satisfied as to his character, courses of study and examns. passed. The examn. for the *Licence in Midwifery* (fee, 8 gs., special, 12 gs.) is open to Registered Med. Practitioners: (*a*) of the U.K. or of Saorstát Éireann, who have (i) obtained the Lic. in Med. of the College or have passed the examn. therefor, or (ii) satisfied the College as to character and as to course of study pursued and examns. passed; (*b*) of 5 yrs.' standing who have so satisfied the College. Entrants under (*b*) are exempt from the written examn. Particulars are obtainable from the Registrar, Royal College of Physicians of Ireland, 6 Kildare Street, Dublin.

Examns. for *Membership* of the R.C.P.I. are held in Feb., June, and Nov., and at specially appointed times. Applications for admission

should reach the Registrar by 2nd week in Dec., Apr., and Sept. Fee, 35 gs., or for L.R.C.P.I., 20 gs.; extra for Special examn., 10 gs. The examn. is open to Registered Med. Practitioners: (*a*) who have held for at least a year a Licence in Med. of a College of Physicians of the U.K., or a degree (B. or D.) of any Univ. in the Empire registrable by the Gen. Med. Council; or (*b*) who hold a foreign qualification to practise Med. and Surg. in their own country, obtained after a course of study satisfactory to the College. The testimony of a fellow or member of the Coll. or a F.R.C.P. Lond. or Edin. as to professional conduct and moral character is also required. The Dipl. of membership carries with it the Licence if this has not been already obtained. Exemption from part of the examn. may, under special circumstances, be allowed by the College.

For admission to the *Fellowship* of the R.C.P.I., which is by election (fee, £35; stamp duty, £25), the candidate must have been a member of the College for 1 yr. Minimum age, 27. It is open to women.

The examn. for the *Fellowship* of the R.C.S.I. is in 2 parts. Fee for each, 5 gs. For admission to the Final part a candidate must be a Licentiate or Graduate in Surg. of a Univ. or licensing body recognized by the Gen. Med. Council. Minimum age, 25. Fee on admission to Fellowship, 40 gs., or for Licentiate of the College, 25 gs.

SOCIETY OF APOTHECARIES OF LONDON

Incorporated by Royal Charter, 1617. *Address*—Water Lane, Queen Victoria St., London, E.C.4.

Examns. for the Diploma of Licentiate in Med., Surg., and Midw. (L.M.S.S.A.) are held in London, the Pre-Medical Examn. in Chem., Physics, and Biol., and the Primary examn. in Materia Medica and Pharm., Anat., Physiol., and Histol. in Jan., April, July, and Oct., the Final, monthly, except in Sept. Fees: Pre-Med., 5 gs.; Primary and Final, 25 gs. For admission to either, certificates are required showing in detail the course of medical study pursued, with particulars of instruction received, hospital practice attended, operations performed and offices held. The course covers 5 yrs. from the date of registration as a medical student. Exemption from the Pre-Med. or Primary may be obtained by passing equivalent examns. recognized by the Society.

Examns. for Diploma of Mastery of Midwifery (M.M.S.A.) are held in May and Nov. Special experience in Obstetrics, ante-natal, and infant welfare is required. Copies of Regns. and necessary schedules may be obtained from the Registrar.

ROYAL COLLEGE OF VETERINARY SURGEONS

Address—10 Red Lion Sq., London, W.C.1. The Royal College is the examining, diploma granting, and registering authority. *Affiliated Colleges* (for teaching purposes)—Royal V. College, Camden Town, London, N.W.1; The V. School of the University, Liverpool; Royal (Dick) V. College, Summerhall, Edinburgh; The V. College, Buccleuch St., Glasgow; The V. College of Ireland, Ballsbridge, Dublin.

A candidate for the *Membership* must, after passing an examn. in

general education entitling him to admission to a faculty in a British Univ., attend courses in one of the Affiliated Colleges during 5 yrs. as follows: 1st year (from which exemption is given under certain conditions to graduates in Arts, Sci., or Med.): Chem. and Elem. Physics; Biol., Elem., Zool. and Botany, Animal Management. 2nd year: Anat. of Dom. Animals; Physiol. and Biochem.; Histol. and Embryol.; Animal Management. 3rd yr.: Anat.; Pharmacol. and Therap., Toxicol., Practical Pharmacy; Vet. Hygiene, Dietetics and Animal Husbandry. 4th yr.: V. Pathol., Bacteriol., etc., Clin. Pathol., Parasitol., V. Med. incl. Clin. Parasitol., V. Surg. Clin. Instrn. 5th yr.: V. Med., Sp. Therap., Meat Inspection, V. Surg., Obstet., Jurispr. Clinic. An examn. (fee, 6 gs.) is held at the end of each year's course.

Qualifications for *Fellowship*: 2 yrs.' practice after membership, and a thesis on results of original research followed by oral and, if deemed necessary, written and practical examns. Fee, 15 gs.

The examn. for the *Diploma in V. State Medicine* is open to holders of M.R.C.V.S. after a special course at a V. School and training under a County or Municipal V. Inspector. Fee, £5 : 5s.

The examn. for the *Diploma in Tropical V. Medicine* is also open to holders of M.R.C.V.S. after a special course. Fee, £5 : 5s.

Matriculated students of London or Edinburgh Univ. may sit for the Internal Degrees of B.Sc. and D.Sc. in Vet. Science. Matriculated students of the Liverpool School may take the examns. for the Degrees of B.V.Sc. and D.V.Sc. Holders of the M.R.C.V.S. may also enter, after a postgraduate course, at the Univ. of Manchester, for the Dipl. in Vet. State Medicine.

THE ROYAL SANITARY INSTITUTE

Founded 1876. Incorporated 1888. *Address*—90 Buckingham Palace Road, London, S.W.1. Branches in S. Africa, New Zealand, and New South Wales, and Examination Boards in all parts of the British Dominions.

The Institute is a composite body, representative of the various sciences allied to sanitation and public health, and its members (over 6000) include medical men, engineers, architects, municipal officers, etc.

Qualifications for (1) Membership: evidence of attainments of standard indicated by certain of the Inst.'s own certificates, a University Degree, or Dipl. of a Med. Corporation recognized by the Council, San. Science certif. of Surveyors' Instn., Testamur of the Instn. of Munic. and County Engineers, and membership of certain other professional bodies; (2) Associateship: one of the Inst.'s certificates or other evidence of attainments of similar standard. Annual Subsn. for Members, 1½ to 2 gs.; Associates, 15s. to 1 g. Fellows are elected from Members of at least one year's standing. Authorized signatures: M.R.San.I., A.R.San.I.

Examns. held by the Institute: (1) Inspectors of Meat and other Foods; (2) Smoke Inspectors; (3) Sanitary Sci. as applied to Buildings, etc.; (4) Health Visitors; (5) School Hyg., including Elem. Physiol.; (6) Tropical Hyg. for San. Inspectors; (7) General Hyg. and Sanita-

tion; (8) Food Hyg.; (9) San. Inspectors (overseas); (10) Nursery Nurses; (11) Advanced Child Study. The Institute's Certificates are recognized by Public Authorities as qualifications for appointments.

The examns. are held in London and in numerous other towns in the U.K. and in Canada, Australia, New Zealand, Tasmania, Hong-Kong, West Indies, British East Africa, British West Africa, Sudan, Ceylon, and Cyprus. Examns. are held in South Africa, Bombay, Rangoon and Straits Settlements, in co-operation with the Governments.

Courses of Lectures and Demonstrations are held in London in spring and autumn.

The Parkes Museum, founded 1876, became part of the Inst. in 1888. It contains various sanitary appliances and exhibits relating to health and hygiene. It serves as a public demonstrating school. Open free daily, 10–5, Saturdays, 10–1. The Inst. has a large Library, including many foreign works. Sessional meetings, about eighteen yearly, are held in London and other large towns.

Congresses and exhibitions have been held almost every year since 1877.

Publications. Journal, monthly, *Kalendar,* yearly, and numerous pamphlets.

ROYAL INSTITUTE OF PUBLIC HEALTH AND HYGIENE

Incorporated by Royal Charter. 28 Portland Place, London, W.1. *Tel.*—Langham 2731/2. Laboratories: 23 Queen Square, London, W.C 1. *Tel.*—Terminus 4788 & 6206.

The Institute is a public educational institution. Its lectures and laboratory instruction are recognized as qualifying for Degrees and Diplomas in Public Health of Universities and Medical Corporations of the United Kingdom. Courses of lectures are given three times a year. Laboratory instruction, bacteriological and chemical, is given daily. The lectures are supplemented by tuition by specialists in public health branches of venereal disease, tuberculosis, industrial disease, maternity and child welfare, dental clinics, school hygiene and port sanitation.

Examinations in General Hygiene, School Hygiene and Mothercraft and Child Welfare are held twice annually at centres throughout the kingdom for the Certificate and Diploma (advanced). The Diploma qualifies for Membership of the Institute (M.R.I.P.H.H.).

Particulars of the fees for the different courses and examns. may be obtained from the General Secretary.

Laboratory investigation in regard to the purity and character of foods and beverages, clothing, and the efficiency of household appliances is a special feature. Information is supplied to members of the medical profession.

The Museum of Hygiene has six sections, viz.: Foods, Beverages, Clothing, Medical and Dental and Toilet, Domestic Hygiene, Hygienic Appliances. It is open to the public daily free of charge.

Lectures are delivered regularly by medical authorities on educa-

tional subjects bearing on hygiene. The Harben lectures are delivered annually.

Publication: *Journal of the Royal Institute of Public Health and Hygiene*, monthly 2s.

12.

THE INSTITUTION OF MINING AND METALLURGY

Founded 1892. Incorporated by Royal Charter 1915. Objects: Advancement of the Science and Practice of Mining in respect of minerals other than coal and of Metallurgy in respect of metals other than iron; and to afford a means of facilitating the acquisition and preservation of that knowledge which pertains to the profession of a Mining Engineer and Metallurgist. *Address*—Salisbury House, Finsbury Circus, London, E.C.2. *Telegrams*—"Minanmet, London."

Qualifications for Membership (M.Inst.M.M.): minimum age, 30, having been for at least 5 yrs. in full charge of important mining or metallurgical operations or in practice as a Consulting Mining Engineer or Metallurgist; if born after Dec. 31, 1894, a regular course of at least 3 yrs.' study in pure or applied science. Qualifications for Associateship (Assoc.Inst.M.M.): minimum age, 25, having been engaged in mining or metallurgical pursuits for not less than (*a*) 2 yrs. if a graduate of the R.S.M. or other mining college or school of equivalent standing; (*b*) 3 yrs., or such longer period as Council may determine, if a graduate of some other college or school; (*c*) 6 yrs. in other cases. The minimum age for admission as student is 18. A candidate for either Membership or Associateship must be actually practising his profession at the time, and must satisfy the Council as to his fitness for admission. The Council may elect a candidate as Member in consideration of his position and attainments in Science or Technology. Entrance fee and annual subsn. for Member, 5 gs. each; Assoc., 3 gs. Students' subsn., 1 g. (over 25—1½ g.) p.a. and no entrance fee.

General meetings for discussion of papers monthly, Oct.-May. Large Library, reading- and writing-rooms. Publications: *Bulletin*, monthly (£1 : 11 : 6 p.a.), and Transactions annually (£1 : 11 : 6 p. vol.); may be purchased by non-members. Gold medals, etc., are awarded by the Instn. for promoting its objects. *Secretary and Editor*: Charles McDermid.

EMPIRE COUNCIL OF MINING AND METALLURGICAL INSTITUTIONS

At an Empire Mining and Metallurgical Congress held at the British Empire Exhibition, 1924, it was resolved to form a Council to promote intercommunication and co-operation between the constituent in-

stitutions, to create and maintain a higher standard of technical efficiency and professional status, to convene future Congresses, etc. *Secretary-General*—Charles McDermid. *Address*—Salisbury House, Finsbury Circus, London, E.C.2. *Telegrams*—" Minanmet, London."

THE INSTITUTION OF MINING ENGINEERS

Established 1889. Incorporated by Royal Charter 1915. *Address*—Salisbury House, Finsbury Circus, London, E.C.2. *Telegrams*—" Instimini, Phone, London."

The Institn.'s objects and purposes are " the advancement of coal and iron-ore mining and allied industries, and the promotion of the acquisition of the knowledge necessary for the control and direction of mining operations in relation to stratified deposits." It is a federation of the Manchester Geol. and Mining Soc.; the Midland Counties Instn. of Engineers; the Midland Inst. of Mining Engineers; the Mining Inst. of Scotland; the North of England Inst. of Mining and Mech. E.; the North Staffs. Inst. of Min. E., and the South Staffs. and Warwickshire Inst. of Min. E. Membership is obtained by nomination through the Council of one of the Federated Institutes.

Candidates for admission as *Members* (M.I.Min.E.) must be not less than 30 yrs. of age and come within one of the following conditions: (*a*) By education and training be in the opinion of the Council a fully qualified Mining Engineer; hold the statutory qualification of a Colliery Manager, or possess such other qualifications as the Council may prescribe; and in either case have held for at least 5 yrs. such responsible position in the mining profession as to meet the approval of the Council; *or* (*b*) Be a person whose position and attainments in Science or Technology justify, in the opinion of the Council, his election as a Member.

There are also Hon. Members, Associate Members, Students, and Associates.

Publications. Transactions (in which are included procdgs. of Federated Insts. as well as those of the Instn. itself), 96 vols. Price to non-members, 36s. each for current volumes; back volumes at varying rates. *Secretary and Editor*: Charles McDermid.

THE IRON AND STEEL INSTITUTE

Founded 1869. Incorporated by Royal Charter 1899. *Address*—4 Grosvenor Gdns., London, S.W.1. *Telephone*—Sloane 0061. *Telegrams*—Irosamente, Sowest, London.

Qualifications: (1) for Membership—minimum age, 21; being practically engaged in iron or steel works or being a person of scientific attainments in metallurgy or specially interested in the applications of iron and steel. Entrance fee, 2 gs.; annual subsn., 3 gs. (if resident abroad, 2½ gs.); reduced entrance fee and subscription for members of the Institute of Metals. (2) For Associateship—maximum age, 24, or,

in the case of members of an approved technical society or institute, 30 ; being (*a*) Student of Metallurgy taking a course at a Univ., Univ. College or Tech. School, or (*b*) pupil or apprentice in metall. or engin., or (*c*) employed in some practical or scientific capacity in met. or engin. works. Annual subsn., 1 g.

Meetings in May and Sept. for reading and discussion of papers. Library, reference and lending ; Information Bureau ; service not restricted to members.

Andrew Carnegie Research Fund—£20,000, interest on which is used for grants to assist metallurgists and students (maximum age, 35) in conducting researches.

Williams Prize Fund—£3000, interest on which is applied as a money award for the best practical paper, on manufacture or treatment of iron or steel, presented in any one year.

Publications. *Journal* in 2 vols. annually ; *Carnegie Scholarship Memoirs*, 1 vol. annually ; *Bulletin*, monthly (a survey of current tech. literature) ; *Special Reports*, at irregular intervals (reports of Tech. Committees).

THE INSTITUTE OF METALS

Founded 1908. Incorporated 1910. *Address*—4 Grosvenor Gdns., London, S.W.1.

Local Sections in Birmingham, Glasgow, London, Newcastle upon Tyne, Sheffield, Swansea ; at Manchester, in association with Manchester Metallurgical Society.

The Institute aims at " the advancement of the non-ferrous metals industry and the associated sciences," by the co-operation of manufacturers, users, and scientific investigators. It concerns itself rather with the manufacture and working of metals and alloys and with their properties and modes of treatment and testing than with the production of metals from their ores. The leading features of its work are the holding of sessions in the spring and autumn and an annual " May Lecture " given by some acknowledged master of his subject ; in addition a special " practical lecture " is given annually in the autumn by an expert non-ferrous technician.

Qualifications for Ordinary Membership (M.Inst.Met.) : minimum age, 23 ; occupying a responsible position, being either engaged in the manufacture, working, or use of non-ferrous metals and alloys, or a person of scientific, technical or literary attainments connected with or interested in the metal trades or with the application of non-ferrous metals and alloys. Limits of age for Student Members, 17-26. Entrance fee and annual subsn. for Ordinary Members, 2 gs. and 3 gs. Students, annual subsn., 1 g. (no entrance fee). Assoc. members of local sections pay a nominal subscription and do not receive the *Journal* or have privileges of membership of the parent Institute. *Fellows* (F.Inst.Met.) are limited in number to 12. They are chosen by Council for having rendered eminent service to the Inst.

The *Monthly Journal* contains *Metallurgical Abstracts* and domestic

news; issued to members only. Three bound vols. of the *Journal* are pubd. each year; price to non-members, £4 for the 3 (post-free).

The *Library*, conducted jointly with that of the Iron and Steel Institute, contains all journals of interest to those concerned with metals.

Further information may be obtained from the Secretary, G. Shaw Scott, M.Sc., F.C.I.S.

THE INSTITUTE OF PETROLEUM

Incorporated 1914. *Address*—The Adelphi, London, W.C.2.

Conditions of admission:

To Fellowship. (F.Inst.Pet) Candidates must (1) be not less than 28 years of age, (2) have received a good general and scientific education, (3) have held for at least 5 years a responsible position in the science and technology of petroleum and (4) have advanced the science and technology of petroleum, *or* must be, in the opinion of the Council, by reason of their position and attainments, desirable persons to become Fellows.

To Membership. (M.Inst.Pet.) Candidates must (1) be not less than 28 years of age, (2) have received a good general education, (3) have held for at least 5 years a responsible position in the petroleum industry, *or* must be, in the opinion of the Council, by reason of their position and attainments, desirable persons to become Members.

To Associate Membership. (A.M.Inst.Pet.) Candidates must be not less than 23 years of age and shall be persons who, not being eligible for Fellowship or Membership, yet by reason of their connexion with any branch of the petroleum or allied industries are, in the opinion of the Council, fit and proper persons to belong to the Institute.

To Studentship. (Stud.Inst.Pet.) Candidates must be (1) not less than 18 years of age, (2) have received a good education and (3) shall satisfy the Council annually that they are following a course of study, instruction or training approved by the Council with the intention of qualifying for Fellowship or Membership of the Institute.

Annual subscriptions: Students, 1 g.; Assoc. members, 2½ gs.; Members, 3 gs.; Fellows, 3 gs.

Publications. Journal, 12 Parts per annum (monthly); annual subscription, £3 : 13 : 6 (free to members). *Standard Methods of Testing Petroleum and its Products*, 7s. 6d. (Revised edition, 1935.) *Measurement of Oil in Bulk, Pt. 1. Standard Weights and Measures*, 2s. 6d. *Petroleum—Twenty-Five Years' Retrospect*, 7s. 6d. (Pubd. 1935.) *Proceedings, World Petroleum Congress*, 1933. 2 vols., £3 : 13 : 6. *Petroleum Technology*, 1935 (Pubd. 1936 and then annually), 7s. 6d. *Oil Shale and Cannel Coal* (Pubd. 1938), £1 : 10s.

13.

MINISTRY OF THE CHURCHES

For those desirous of being admitted to the Ministry of the Churches, a University Degree has now become almost an essential preliminary qualification. A number of Univs. have faculties of theology and grant degrees in that subject, while many have theological colleges associated with, or recognized by, them (v. General Index—Theological Colleges). Facilities are offered by way of scholarships and grants to suitable candidates by various denominations.

No succinct statement of the qualifications required can be provided in the compass of this appendix. Intending entrants should address the central authority of the Church to which admission is desired (v. below), or consult their own minister or priest.

Church of England: The Central Advisory Council of Training for the Ministry, 2 Wood St., London, S.W.1.

Roman Catholic Church: The local Bishop or the Provincial of any Religious Order which has houses in Gt. Britain and Ireland.

Congregational Church: Congregational Union, Memorial Hall, Farringdon St., London, E.C.4.

Baptist Church: The Secretary, Baptist Union of Gt. Britain and Ireland, Baptist Church House, 4 Southampton Row, London, W.C.1.

Methodist Church: Central Buildings, Westminster, London, S.W.1.

Presbyterian Church of England: General Offices, 86 Tavistock Place, London, W.C.1.

Church of Scotland: The Secretaries, Committee on Education for the Ministry, Church of Scotland Offices, 121 George Street, Edinburgh, 2.

Presbyterian Church in Ireland: The Regius Professor of Divinity, Trinity College, Dublin.

14.

THE CHARTERED INSTITUTE OF PATENT AGENTS

Founded 1882. Incorporated by Royal Charter 1891. *Address*—Staple Inn Buildings, London, W.C.1.

Under the Patents and Designs Acts, 1907 to 1932, it is illegal to practise as a Patent Agent without being duly registered. The Register of Patent Agents is kept by the Institute in accordance with the Board of Trade's Rules of 1932.

Examinations are conducted or recognized by the Inst. for (*a*) the Registration of P.A.'s and (*b*) the admission to the Inst. of Fellows, Associates, and Students. The Inst. recognizes as Preliminary examns. those of Matricn. standard.

The Inst. holds each year (i.) Intermediate (fee, 2 gs.), and (ii.) Final examns. (fee, 3 gs.), qualifying for Registration. Latest date for entry, March 1. Subjects of (i.): A. Patent Law, Patent Agents' Practice; B. Designs, Trade-marks, Foreign Law, Manufactures, Science, and Drawings. Subjects of (ii.): A. Preparation of Specifications for British Colonial and Foreign Patents; B. Interpretation of British Specifications; C. Patent Agents' Practice. A candidate for admission to (i.) must have passed one of the approved Prelim. examns. and (*a*) have served 3 yrs. as a pupil or technical asst. to one or more registered P.A.'s or (*b*) have so served for 2 yrs. *and* attended a 2 yrs.' course at an approved Tech. Coll. or had 2 yrs.' approved practical experience, or (*c*) have so served for 1 yr. *and* taken a Univ. degree in the U.K. or attended a 3 yrs.' course at an approved Tech. Coll. or had 3 yrs.' approved practical experience; or (*d*) have served in the Patent Office for 5 yrs. on the Examining Staff (Patents), or (*e*) be entitled to practise as a Solicitor or (Scotland) Law Agent.

Candidates for admission to (ii.) must have passed (i.) and have served as above for a period of 2 yrs. in addition to terms under (*a*), (*b*), or (*c*) above, as case may be, or be entitled as in (*e*).

Minimum age for membership of the Inst.—25. Other qualifications: For Fellowship, (*a*) having ceased to be an Associate by reason of being in practice on own account as P.A.; (*b*) having passed Final examn.; (*c*) special dispensation in case of candidate specially approved by the Council. For Associateship (not applicable to person registered as a P.A.): (*a*) being qualified and able by reason of connexion with the Law, Science, or the Arts, to advance the objects of the Inst.; (*b*) being pupil or asst. of 3 yrs.' standing of a Fellow or a Student attached to the Inst. and having passed Interm. Examn. For Foreign, or for British Oversea Membership: having been established in practice as P.A. for a sufficient time, not less than 3 yrs in a British Dominion, Colony, or Dependency or in a Foreign Country and neither having an office nor practising in the U.K.

Minimum age for "Studentship"—18. Other qualifications: being an articled pupil of a Registered P.A. and having passed an approved Prelim. examn.

Entrance fee for Fellow, 3 gs.; Assoc., 2 gs; Foreign, and British Oversea Members, 2 gs.; Student, 1 g. Annual subs.: Fellows, 3 gs.; Foreign, and British Oversea Members, 2 gs.; other classes, 1 g. Fellows' initials: C.P.A.

15.

THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

Address—17 Bloomsbury Sq., London, W.C.1.

Examinations (open to women as well as men) are held in London and Edinburgh in Jan., April, July, and Oct.: the *Prelim. Sci.* examn.

(fee, 6 gs.) followed by either the *Chemist and Druggist Qualifying* examn. (fee, 12 gs.), for registration under the Pharmacy Act, 1868; or the *Pharmaceutical Chemist Qualifying* examn. (fee, 12 gs., Jan. and July) for registration as Pharmaceutical Chemist (Ph.C.) under the Act of 1852. No person can enter for the Prelim. Sci. examn. who is not a *Registered Apprentice or Student*, and this involves passing a matricn. or other examn. which admits to a course of instruction for a Univ. degree. The examn. must include Maths. Courses of instruction are held in Biochemical Analysis and arrangements are made for a limited number of students to study biological methods of assay.

The College is a School of the Univ. of London in Pharmacy (*see* p. 216).

16.

INSTITUTE OF PHYSICS

Founded 1918 by co-operation in the first instance of four Societies, and incorporated under the Companies' Act in 1920. The participating Societies are: The Physical Society, the Faraday Society, the Royal Meteorological Society, and the British Institute of Radiology. *Address* —1 Lowther Gardens, Exhibition Rd., London, S.W.7.

Members are of two classes: *Associates* (A.Inst.P.) and *Fellows* (F.Inst.P.). Qualifications for Associateship are: (i.) the passing of an examn. held by the Inst. or a recognized equivalent examn. and (ii.) a yr.'s approved research or industrial or other professional experience. The examn. is excused to candidates with qualifications approved by the Board. A candidate for Fellowship must, in addition to his associateship academic qualifications, have had a total of 5 years' experience in any position requiring a thorough knowledge of Physics. Entrance fees, 1 g. and 2 gs. Annual subsns., 1 g. and 2 gs. All classes of membership are open to women on the same terms as to men. Subscribership is open to any persons with an interest in physics; annual subsn., 10s. 6d.

Persons over the age of 16 may be admitted as Students, provided that they have passed a recognized prelim. examn. and are students at certain Univs. or schools, or pupils of a Fellow of the Institute. Annual fee, 5s.

Local Branches have been formed in London and Home Counties, Manchester, the Midlands, Australia, and India.

An *Appointments Register* and a *Panel of Consulting Physicists* are maintained.

A series of Lectures on "Physics in Industry" was instituted in 1922. Part I., published by Henry Frowde and Hodder & Stoughton in their "Oxford Technical Publications"; II., III., IV., and V., Oxford Univ. Press. All later lectures published by Institute. *Journal of Scientific Instruments* (in coop. with Nat. Phys. Laboratory) (monthly,

2s. 6d , subsn. 30s. p.a., payable to the Inst. of Physics) ; free to Fellows and Associates ; Students, 10s. 6d. p.a. ; Subscribers, 15s. p.a.

17.

INSTITUTE OF PUBLIC ADMINISTRATION

Established 1922 to develop the Civil Service and other Public Services (both national and local) as a recognized profession, and to promote the study of Public Administration in this and other countries. *Offices*—Palace Chambers, Bridge St., Westminster, S.W.1.

Regional Groups have been founded in Birmingham, Belfast, Bristol, Manchester, Edinburgh, Liverpool, Leeds, Sheffield, Newcastle, Glasgow, Hull, Pretoria (S. Africa), Adelaide (S. Australia), Melbourne (Victoria), Sydney (N.S.W.), and Southern Rhodesia. Monthly lectures are held in the towns where Groups have been already founded, and in London. Courses of lectures are also given in connexion with the Univs. of Birmingham, Bristol, Manchester, Liverpool, Leeds, Sheffield, Glasgow, Oxford, and London. A Conference is held every summer at either Oxford or Cambridge, and one in London in the winter. Subscription—Fellows, 2 gs. ; Members, 1 g ; Associates, ½ g. per annum. The Journal, *Public Administration*, is published quarterly by the Institute (*annual subs.* 12s. 6d. post free).

18.

CHARTERED INSTITUTE OF SECRETARIES

OF JOINT-STOCK COMPANIES AND OTHER PUBLIC BODIES

Founded 1891. Incorporated by Royal Charter, 1902. *Address*—6 London Wall, London, E.C.2. Branches at Birmingham, Bristol, Hull, Liverpool, Manchester, Newcastle upon Tyne, Nottingham (for N.E. Midlands), Bradford and Leeds (for West Yorks), Sheffield, Stoke-on-Trent, Cardiff, Swansea, Edinburgh, Glasgow, N. Ireland (Belfast) ; and overseas in Canada (London, Ont., Montreal, Ottawa, Toronto, Vancouver, B.C.), Australia (Brisbane, Melbourne, and Sydney), South Africa (Johannesburg) and New Zealand.

Examns. are held in London and at various other places both at home and abroad in June and Dec. A candidate must either enter into Articles of Clerkship with a member of the Inst. for a period of 4 yrs. (if a graduate, 3 yrs.) or obtain registration as *Student* in course of preparation for the secretarial profession.

The *Preliminary* examn. (fee, 1 g.; min. age, 16) comprises (i.) English (Grammar, Compn., Dictn.), (ii.) Arith., (iii.) Engl. Hist. or Geog., and (iv.) one of Hist. or Geog. (if not taken under (iii.)), Latin, French, German or Spanish, or Algebra and Geometry. Approved examns. of matricn. standard exempt from the Prelim. examn.

For admission to the *Intermediate* (fee, 2 gs.) a candidate must have passed or been exempted from the Prelim. Graduates in Arts, Commerce, Law, or Sci. of recognized Univs. in the U.K., S. Africa, McGill, Montreal, Tor., W. Ont., Manit., Melb., Q'ld., Syd., and those holding Diplomas in Econ. or Comm. of Q'ld. or Sydney Univ., grads. in Comm. of Dublin (Trin. Coll.), those holding Diplomas in Comm. of Adel. Univ. and persons who have passed the Final of the Council of Legal Education, Law Soc., Scottish Law Agents Soc., Inst. C.A., Chartd. Acctts. of Scotland, Inst. of Chartd. Acctts. in Ireland, Soc. of Inc. Acctts. and Audrs., Ch. Ins. Inst., Inst. of Bankers, Inst. Bankers, Scotland (member), Inst. Bankers, S. Africa, Inst. C.A. Aust., Commw. Inst. Accts., Fedl. Inst. Accts., Inst. Inc. Accts., N.S.W., Ass. Accts. Austr., New Zealand Soc. of Acctts., are allowed a pass in the Interm. on attaining the usual standard of proficiency in any 3 of the specified examn. subjects they select approved by the Council, but must pass the Final as a whole before election to membership.

For admission to the *Final* (fee, 2 gs.; min. age, 21) a candidate must have passed the Interm. The subjects are: Econ., Sec. Practice I. and II., Accts., Merc. Law, an approved foreign lang., or Banking and Exchange, and one special law subject (*e.g.* Companies or Insurance).

Associate Membership (A.C.I.S.) can be obtained after 6 yrs.' service with a Public Coy. or Body; *Fellowship* (F.C.I.S), after 8 yrs.', of which 3 have been as Secy. or Asst. Secy. A Fellow may describe himself as a Chartered Secretary; so likewise may an Associate if having passed the Final Examn. he holds or has held office as a Secretary, Asst. Sec., Chief Acct., Registrar or Chief Clerk of a Company, or other body corporate.

Publications: *Yearbook*; *Secretarial Practice* (12s. 6d.); *Powers of Attorney* (5s.); *The Secretarial Primer* (5s.); *The Secretary* (monthly, 1s.).

THE CORPORATION OF CERTIFIED SECRETARIES

Incorporated 1923. *Address*—Secretaries Hall, 28 Fitzroy Square, W.1.

Examns. are held in London and various provincial centres in June and Dec. each year. Foreign and Colonial centres arranged as required.

Preliminary Examn. (fee, 1 gn., minimum age, 15) comprises English, Arithmetic, and one of: Geog. or Hist. (if not already taken), or Latin, or French or German, or Italian or Spanish, or Afrikaans, or Algebra and Geom. (1 subject), or Shorthand (60 w.p.m.). Exemption from the Prelim. Examn. may be granted provided the candidate is over 15 yrs. and produces evidence of having passed an examn. equivalent thereto, or who, owing to age and experience, satisfies the Council regarding the Examn. Bye-laws from time to time in force.

For admission to the *Intermediate* (fee, 1½ gs.) a candidate must have passed or been exempted from the Prelim. The subjects are Sec. Practice, Acctcy., Merc. Law, Company Law or other branch of Law and one of: English, Com. Arith. or Foreign Lang. The subjects of the *Intermediate Hospital Administration Examn.* are: (1) Hospital Sec. Practice, (2) Hospital Acctcy., (3) Hospital Law, (4) Merc. Law, (5) Econs., (6) Hospital Organ. and Management. The subjects of the *Intermed. Local Govt. Admin. Examn.* are: (1) Sec. Practice as applied to Local Authorities, (2) Local Govt. Finance and Acctcy., (3) Local Govt. Law, (4) Merc. Law, (5) Econs., (6) Local Govt. Admin.

For admission to the *Final* (fee, Pts. I. and II., 1½ gs. each, complete, 2 gs.) a candidate must have passed, or been exempted from, the Prelim. and Interm. examns. The subjects are: Pt. I. (1) Sec. Practice, (2) Law, Conduct of, and Procedure at meetings, (3) Acctcy.; Pt. II. (4) Econ., (5) Merc Law, (6) one of: (*a*) Company Law (or other branch of Law), (*b*) Banking and Exchange, (*c*) Foreign Lang. The subjects of the *Final Hospital Admin. Examn.* are: Pt. I. (1) Hospital Sec. Practice, (2) Law and Conduct of and Procedure at Meetings, (3) Hospital Acctcy; Pt. II. (4) Hospital Law, (5) Econs., (6) Hospital Organ. and Management. The subjects of the *Final Local Govt. Admin. Examn.* are: Pt. I. (1) Local Govt. Admin., (2) Law and Conduct of and Procedure at Meetings, (3) Local Govt. Finance and Acctcy; Pt. II. (4) Local Govt. Law, (5) Econs., (6) General Principles of Public Admin.

Membership. A Fellow (F.C.C.S.) must be over 24 yrs. of age, an Associate (A.C.C.S.) over 21. Each may describe himself as a Certified Secretary. Registered Students, who must pay a registration fee of 10s. 6d.

Fees. Entrance, 1 g.; Fellow, 1½ gs.; Associate, 1 g.

Publications: *Year Book*, 5s. p.a.; *The Certified Secretary* (bi-monthly, 1s. per copy, or 6s. 6d. p.a. post free); *A Manual of Secretarial Practice*, 12s. 6d.

19.

THE CHARTERED SURVEYORS' INSTITUTION

Founded 1868. Incorporated by Royal Charters, 1881 and 1921. *Address*—12 Great George St., Westminster, S.W.1. *Telegrams*—Surveyable, Parl., London.

Professional examns. (fees: Interm.—2 parts—2 gs. and 3 gs., Final, 5 gs.; Direct Fellowship, 5 gs.; applications receivable in Aug.) are held in March in London, Glasgow, and Dublin, and a Prelim. examn. (fee, 1½ gs.) in Jan. in the same places and Manchester.

The *Preliminary* comprises Elem. Maths., Hist., Compn., and one of: Latin, French, German, Inorg. Chem., Botany, Geol. Candidates are expected to reach the standard of the Oxford and Cambridge School Certificate examn. Candidates are exempt from the Prelim. if they

have passed an approved examn. of matricn. standard, Inst. C.E. Studentship, Prelim. of Inst. C.A., Law Soc., Auctioneers' and Estate Agents' Inst. or Sandhurst or Woolwich.

For admission to the (i) *Intermediate*, min. age, 19 for 2nd pt., a candidate must, unless at an approved place of instruction (see below), be actually engaged in an office where he has opportunities of obtaining practical experience in the profession. The subjects are grouped thus: I. chiefly Land Agency, II chiefly Valuation, III. chiefly Building or chiefly Quantities, IV. chiefly Mining. A candidate may select any one of these subdivisions. For the (ii) ordinary *Final* examn. the candidate must have passed the Interm. in the subdivision which he takes for the Final. The (iii) *Direct Fellowship* examn. (min. age, 30) may be taken, without having passed (i) or (ii), by a candidate who has been in practice on his own account for 5 yrs. The (iv) *Special Degree Holders* examn., min. age 19, may be taken, on the same conditions as to professional training as (i), by a candidate holding a Univ. degree in subjects bearing upon the surveying profession. All candidates for (i), unless they have passed one of the exempting examns., must have passed the Prelim. Examn. or, if over the age of 25, a special test of general education. Applications must be received by end of Aug.

Candidates between the ages of 18 and 21 who have passed the Prelim. or Exempting examn. are recommended to become Students. They must be pupils or assistants of a Surveyor or be taking a full-time course approved by the Council as bearing on the profession of Surveyor, at one of the Univs. of the U.K. or their Affiliated Colls., or one of the following: Harper Adams Agr. Coll., Newport; Univ. Coll., Southampton; Coll. of Estate Management; Midland Agr. Coll.; Seale-Hayne Agr. Coll., Newton Abbot; the School of Architecture, Regent Street Polytechnic; and, under certain conditions, the Northern Polytechnic, Holloway, N.

For election as *Professional Associate* (P.A.S.I.), min. age 21, a candidate must have passed (iv) or (i) and (ii), and be in practice as a Surveyor on his own account or employed as an Asst. in a Surveyor's office. For the Fellowship (F.S.I.), min. age 30, a candidate must have passed either (i) and (ii) or (iii) or (iv) and had 5 yrs.' experience as, and still be, either a Principal or Responsible Manager in an established business or a Head of a Dept. in the office of a public body reporting direct to his Board or Council.

Scholarships: Offered annually, value £100 for 3 yrs., to enable the scholar to read at Cambridge for the B.A. degree. The course must be taken from certain subjects prescribed by the Instn. Applns. should be submitted not later than the end of Oct. For further particulars apply to the Secretary. *See also* App. II. (Travelling).

20.

TEXTILE INSTITUTE

Founded 1910. Incorporated by Royal Charter 1925. *Address*—St. Mary's Parsonage, Manchester, 3.

The *Associateship* (A.T.I.) implies, in addition to Inst. membership, attainments tested by examn. in connexion with recognized training instns., the passing of the Inst.'s Examn. in Genl. Textile Technology, and a period of approved occupation. The *Fellowship* (F.T.I.) involves systematic study or research, with publication, subsequent to Associateship, and a further period of approved occupation.

21.

EDUCATION AND TRAINING OF TEACHERS IN ENGLAND AND WALES

Courses of training for the teaching profession, recognized and aided under the Regulations of the Board of Education (Whitehall, London, S.W.1), are provided in Training Colleges and in the Training Departments which form part of the work of all Univs. in England and of the constituent Colleges of the Univ. of Wales and the Univ. Colleges of Exeter, Nottingham, Southampton, Hull, and Leicester.

A person who desires to enter a Training College as a *recognized student* or as a *private student* intending to follow a course qualifying him for recognition as a Certificated Teacher must (i.) be over the age of eighteen, or seventeen if he is commencing a four-year course which includes work for a University Degree, on the first day of the academic year for which he is admitted to the College, or, if that day is the 1st August and the College authorities think fit, within two months thereafter; (ii.) have passed before admission a First Examination for Secondary Schools or some approved examination of at least equivalent standard (*e.g.* the Matriculation Examination of any Univ. in England or Wales); and (iii.) satisfy the College authorities as to his character, probable suitability for the teaching profession, and health and physical capacity for teaching. A person who desires to enter as a recognized (*i.e.* grant-aided) student must also (iv.) be a British subject ordinarily resident in England or Wales, unless an exception to this rule is approved; and (v.) sign a declaration of intention to complete the course of training and thereafter to adopt and follow the profession of teacher in an Approved school.

The principal types of courses at present recognized are: (i) 4-year, *i.e.* 3 yrs. of study for a Univ. degree, followed by a year of professional training; (ii) 2-year, including a period of professional training concurrently with a period of academic study; this course may, under special conditions for individual students, be extended for a third year or renewed for a year after three years' teaching in approved schools; (iii) 1-year, for graduates or Certificated Teachers who have not previously been trained at Training Colleges.

As regards (i), a student may be admitted to the 2nd or 3rd year if he has completed 1 yr. or 2 yrs. of the course for a degree before entering the Training Department. He will not as a rule be certified as a Teacher unless he has passed a Final examination for a degree.

A course of training extending over not less than 1 yr. at a Secondary School and providing for a systematic study of the principles and practice of teaching may be approved for a person who has obtained a Univ. degree, and a grant may be paid by the Board to the Governing Body of the School.

For studentships for teachers with at least 5 years' teaching experience, *see* Appendix II. 10.

The *College of Preceptors*, Bloomsbury Square, London, W.C.1, grants the following Diplomas to teachers: (1) A.C.P., (2) L.C.P., (3) F.C.P. The A.C.P. and L.C.P. examns. include a written examn. and a practical test of ability to teach. Candidates for the A.C.P. must show that they have reached an approved standard in general education. The L.C.P. examn. is open to University graduates and holders of the A.C.P. Diploma. Candidates must submit evidence of a year's professional experience for A.C.P. and 3 years' experience for L.C.P. The F.C.P. Diploma is granted to candidates who, having already obtained either the L.C.P. Diploma or a degree of an approved Univ. and a teaching diploma of an approved Univ., and having had 5 years' experience, submit a satisfactory thesis on some original research or experimental work in Education.

The *College of Handicraft* (Hon. Registrar, Ivor John, F.Coll.H., M.R.S.T., 124 Belgrave Road, London, S.W.1), a constituent part of the Institute of Handicraft Teachers, incorporated in 1924, grants certificates of competency as Teachers of Handicraft to applicants who satisfy the Bd. of Examiners of the Coll. Examinations for the Certificate (M.Coll.H.) and for the Diploma (M.Coll.H. Hons.) are ordinarily held in Feb. of each year. A necessary qualification is recognition by the Board of Education as qualified teacher. A Summer School and a Correspondence Course of Study form part of the College activities, and prizes are awarded for research into the problems of Practical Education.

INTERCHANGE OF TEACHERS

Arrangements exist for the interchange of teachers in Secondary Schools between this country and the Dominions, France, Germany, and the United States, and also as regards teachers in Elementary Schools with the Dominions. The usual conditions of interchange, which is normally for one year, are that the teachers concerned are granted

special leave of absence on full pay ; they thus remain during the period of exchange in the service of their home authorities, and the period of interchange counts for salary-increment and pension. The Teachers Superannuation Act of 1937 further makes it possible for a teacher to leave service in a grant-aided school in England, and to serve for a period of 5 yrs., or in certain cases more, in a school overseas without forfeiture of pension rights, provided 10 per cent. of the salary last received in England is paid by the teacher for the period of overseas service.

The *League of the Empire*, Ord Marshall House, 124 Belgrave Rd., London, S.W.1, promotes the interchange of Elementary and Secondary School teachers between the Mother Country and the Dominions on the lines laid down above. Exchanges are also made between Lecturers in Training and Technical Colleges. 199 local authorities in Gt. Britain and Northern Ireland have cooperated, and over 3696 teachers have been exchanged. Canadian, Australian, S. African, S. Rhodesian, Newfoundland and New Zealand Education Depts. reciprocate. An article on the *Interchange of Teachers Scheme* was printed by the Board of Education in their Report for the year 1925–26. Teachers from any part of the Empire may find housing accommodation at Ord Marshall House. Chairman, Emeritus Prof. E. A. Gardner, M.A., Litt.D. ; Hon. Treasurer, Lord Askwith, K.C.B.

The *Overseas Education League of Canada*, under the auspices of the Governments of the Dominion of Canada, Australia, New Zealand, South Africa and Newfoundland, as well as the Education Depts. of the Provinces of Canada, undertakes the organization of official visits of teachers and students to Gt. Britain and other parts of the Empire as well as Europe. Arranges the interchanges of teachers. Organizes Summer Schools in English, Drama, Physical Education and Folk Dancing. British teachers and students travel through Canada under its auspices. Vice-President and Hon. Organizer, Major Fred. J. Ney, M.C., LL.D., 43 St. George St., Toronto (now headquarters for Canada) ; other offices at 411 Power Building, Winnipeg, 70 Sun Life Building, Montreal.

The *Fellowship of the Maple Leaf* for the supply of British teachers for the Dominions is interested primarily in Elementary Schools, but also places teachers in Private Schools, High Schools, and Universities. Office—63 Tufton St., Westminster, S.W.1.

British Interchange Council. The organization for the exchange of teachers in secondary and other schools in this country with similar teachers in foreign countries was studied some years ago by the British National Committee of Intellectual Cooperation under the League of Nations. As the result of two Conferences of teachers' organizations, local education authorities, and other bodies interested in the question, a representative national coordinating Council, with an Executive Committee, was established to coordinate and assist the various organizations engaged in promoting the exchange of teachers with foreign countries. The Chairman of the Council, which is recognized by the British National Committee of Intellectual Cooperation as one of its Sub-Committees, is Mr. R. G. Mayor, C.B., late Principal Asst. Secretary of the Board of Education for England and Wales.

Secretary, Mr. A. Farquharson, M.B E., M.A., Le Play House, 35 Gordon Square, London, W.C.1.

TEACHERS REGISTRATION COUNCIL

Established by Act of Parliament 1907, and constituted by Orders in Council 1912, 1926 and 1937. *Address*—29 Gordon Sq., London, W.C.1.

The Conditions of Registration are : (i.) a degree or other qualification approved by the Council ; (ii.) successful completion of a course of training in teaching for 1 academic year or its equivalent in an institution recognized by the Council for this purpose ; *or* evidence of training service for at least 1 academic year in an approved school, the service being accompanied by a course of study in the methods and principles of teaching ; (iii.) teaching experience in an educational instn. recognized by the Council for this purpose and covering a period of not less than 1 academic year of whole-time or 3 acad. years of pt.-time service.

Condition (ii.) is waived in the case of a teacher who has had not less than 1 academic yr. of experience as Recognized Teacher in Univs. and instns. of Univ. rank approved by the Council for this purpose.

Fee for Registration : The standard fee for Registration and Life Membership of the Royal Society of Teachers is £3, but there is a substantial reduction in the case of those who seek early registration. The fee may be paid by instalments.

ROYAL SOCIETY OF TEACHERS

Executive : The Teachers Registration Council. *President* : Sir Ross Barker, K.C.I.E., C.B. Membership is restricted to those who have satisfied the conditions of Registration, and have been admitted to the Official Register of Teachers maintained by the Council. Initials : M.R.S.T.

22.

GOVERNMENT SERVICES—HOME AND OVERSEAS

These include :—

Home Civil Service (including Northern Ireland).

Indian Civil Service.

Ceylon Civil Service.

Foreign Office and Diplomatic Service.

Consular Service and Intelligence Officer Grade in the Department of Overseas Trade.

Information regarding examinations for posts in the Administrative

and other superior branches of Government Service may be obtained from the Secretary, Civil Service Commission, Burlington Gardens, London, W.1.

Information regarding Administrative and other Colonial appointments (other than in Ceylon) may be obtained from the Director of Recruitment (Colonial Service), Colonial Office, 2 Richmond Terrace, Whitehall, London, S.W.1.

As regards numerous other Government appointments (Agriculture, Education, Forestry, Police, Sudan, etc.), University graduates are advised to make inquiries of their Appointments Board.

V

LIBRARY FACILITIES AND LIBRARIANSHIP

[Details of University and College libraries are included in the General Information sections under each institution.]

THE NATIONAL CENTRAL LIBRARY, Malet Place, London, W.C.1. (Librarian, Luxmoore Newcombe, M.A., Litt.D.) Its function is to supply those books which the local library is unable to provide. It does not issue books direct to individuals, but only to the library to which they have access. Every endeavour is made to provide, through its system of Outlier Libraries, any type of educational or vocational book, pamphlet, or periodical (costing not less than 8s., and *exclusive of text-books for examns.*), on any subject, if a copy is not in the local library. Advanced scholars and research students may thus obtain books and periodicals not accessible to them elsewhere. No charge is made for books lent, but postage both ways must be paid by the borrowing library, which accepts full responsibility for the safety and return of the books. The address of the local library, if not known, will be supplied on application to The Librarian of the National Central Library.

A LIBRARY CO-OPERATION INQUIRY OFFICE has been established by the Association of University Teachers with the help of a grant from the Carnegie United Kingdom Trustees and is now supported by subscriptions from the Universities. It endeavours to discover for research workers in what library, if any, any publication or MS. is available, and whether it can be lent. All inquiries must be made through the librarian of a university or college accompanied by a statement as to the libraries already applied to unsuccessfully. Address: The National Central Library, Malet Place, London, W.C.1.

THE ASSOCIATION OF SPECIAL LIBRARIES AND INFORMATION BUREAUX (ASLIB), 31 Museum St., London, W.C.1, was established in 1925. A record of the location and particulars of existing sources of specialized information is maintained and members are helped to get into touch with them. In 1938 the Fifteenth Annual Conference was held at Lady Margaret Hall, Oxford. The Conference Proceedings are published annually, price 5s. In 1928 the Association published in conjunction with the Oxford Univ. Press *The Aslib Directory*, a guide to sources of specialized information in Gt. Britain and Ireland. Price 10s. 6d. Other publications—*Aslib Book-list*: Quarterly Recommendations of recently published Scientific and Technical Books. Free to members, 10s. 6d. p.a. to non-members. *Quarterly Bulletin* issued free to members. *Select List of Standard British Scientific and Technical Books.* Price 2s. 6d. Genl. Secretary, Miss E. M. R. Ditmas, M.A.

THE BRITISH LIBRARY OF INFORMATION, New York. *See* Appendix VII.

Full details of all university and college libraries may be found in *The University and College Libraries of Great Britain and Ireland : a Guide to the Material available for the Research Student*, by L. Newcombe. Bumpus, 1927. Special reference is made to those collections which are likely to be of value to the research student.

Another useful reference book is *The Students' Guide to the Libraries of London*, by R. A. Rye, Goldsmiths' Librarian of the University of London. 3rd edn. 1927. University of London Press, Ltd.

For international exchanges:

Coordination des bibliothèques. Guide des services nationaux de renseignements du prêt et des échanges internationaux. Deuxième édition. 1933. League of Nations Institute of Intellectual Co-operation, 2 rue de Montpensier, Paris 1er.

SCHOOL OF LIBRARIANSHIP

University College, Gower St., London, W.C.1.

Candidates for admission to the postgraduate Diploma Course must hold a first- or second-class honours degree of the Univ. of London or other approved Univ. Non-graduates may be admitted to the School if they have the Matricn. certif. of the Univ. of London, or any certif. accepted in lieu thereof, provided that such certif. includes Latin. Other candidates may be admitted on producing evidence satisfactory to the Director that their previous education is such as to enable them to follow the courses with profit. It is desirable that one-year students should have a reading knowledge of French and some knowledge of German before undertaking the course.

Students wishing to proceed to the Diploma are required to register as Internal Students.

The course of training in Librarianship for full-time students will normally occupy not less than two sessions. Graduates are permitted to complete it in one session; Evening students, in not less than three, nor more than five years.

Composition Fees: Full-time students taking 2 or more sessions, 20 gs. per session; graduates taking 1 session, 30 gs.; Pt.-time students, 12-18 gs. per session.

Intending students should apply to the Director of the School. For staff, *see* p. 142.

THE LIBRARY ASSOCIATION

Founded 1877. Incorporated by Royal Charter, 1898. *Address*—Chaucer House, Malet Place, London, W.C.1.

Admission to the Register of Librarians, which is maintained by

the Assn., can be secured either by the Diploma which entitles its holder to Fellowship of the Assn. (F.L.A.), or by passing the Interm. Examn. and thus becoming an Associate (A.L.A.). No candidate who is not a member will be admitted to any of the examns.

Elementary Examn. (fee, 10s. 6d.). Candidates must be not less than 17 and have passed one of the following—a School or Higher Certif. Examn. of one of the recognized examining bodies, a Matricn. or Entrance Examn. of a Univ. in the U.K. or other approved Univ., and certain other examns. Subjects—Elem. English Literary Hist., Elem. Classification, Cataloguing and Accession Methods; Elem. Library Administration. *Interm.* (fee, 1 g.). Candidates must have passed the Elem. Examn. and hold an approved certif. in one of certain langs. Subjects—Library Classification, Library Cataloguing. *Final* (fee, 1½ gs.). Candidate must have passed the Interm., hold a second approved lang. certif. and a certif. showing he has worked for not less than 24 hrs. a wk. for at least 3 yrs. as a member of the admin. staff of one or more libraries approved by the Council. Subjects—Pt. I.: English Literary Hist. or Lit. Hist. of Sci. or of Econ. and Comm. (A grad. in English, Sci. or Econ. of an approved Univ. may apply for exemption from Pt. I.) Pt. II.: Bibliog. and book selection. Pt. III.: Advanced Library Admin.

The Examns. are held in May (appln. on or before Mar. 31) and Dec. (appln. on or before Oct. 31). Further particulars from the Secretary.

Publications: *The Library Association Record* (monthly); *The Library Assn. Yearbook; The Subject Index to Periodicals* (annual); *The Year's Work in Librarianship* (annual).

VI

STUDENT ORGANIZATIONS, BUREAUX OF INFORMATION, AND OTHER ASSOCIATIONS

A NATIONAL UNION OF STUDENTS of the Univs. and Univ. Colleges of England and Wales was formed in Feb. 1922 "to represent the students of this country nationally and internationally," and to promote their educational and social interests in entire independence of all political or religious propaganda. It is a federation of Unions, Guilds, and Student Representative Councils. It is affiliated to the *Confédération Internationale des Étudiants* (v. App. X.), through which it has taken an active part in promoting foreign travel of English students and stimulating intercourse with students abroad. A particularly important Dept. is that for Exchange and Tuition Visits which arranges each year many hundreds of exchanges between British and foreign students. The next Annual Congress will be held at Oxford, March 29–April 4, 1939.

Similar National Unions exist in Canada, South Africa, Australia, and New Zealand, and there have been two conferences of Student Unions of the Empire, the first held in London and Cambridge in July 1924, and the second in Montreal in Sept. 1929. The purpose of these conferences has been to discuss ways and means of practical co-operation among the students of the Empire and questions of general Imperial interest. As a result of them it is possible to arrange periodic visits of Debating Teams from Gt. Britain to the Dominions and *vice versa*, and among the various Dominions themselves. Large groups of South African students have visited England on many occasions, and such visits have now become annual events. The formation of the Dominion Students' Athletic Union with headquarters in London was a direct outcome of the first Imperial Students' Conference, and the existence of this Union makes it possible to arrange the participation of Dominion Teams in the International University Games and to promote athletic fixtures between teams of Dominion Students resident in England and teams representing the British Universities. *Publication*—"The New University," twice a term, 2d. Secretary, R. Nunn May, B.Sc., 3 Endsleigh Street, London, W.C.1.

THE SCOTTISH NATIONAL UNION OF STUDENTS (S.N.U.S.), formerly known as "The Students' Representative Councils of Scotland," consists of the Students' Representative Councils of the four Scottish Univs., and therefore represents all the students of Scotland—total number approximately 11,000. Principal Secretary and Treasurer, A. S. R. Tweedie, M.A., S.R.C. Office, The University, Edinburgh, 8. Tel. 412901. Formerly one of the chief features of the S.R.C.S. (as it then was known) was the Annual Conference, at which each Univ. was represented by eight delegates. It was, however, decided at the beginning of 1935 that, as the Annual Conference did not operate satisfactorily, it should be

abolished and the business of the S.N.U.S. should in future be conducted by means of: (1) An Annual Convention of four delegates from each S.R.C.; (2) the National Executive Committee, consisting of the President and Secretary of each S.R.C., and attended by the Principal Secretary and the Travel Secretary; (3) the Inter-Universities International Academic Committee; (4) other Committees appointed for special purposes; and (5) the Executive Officers. At the same time the alteration in the name of the National Union was effected. The second Annual Convention was held in Aberdeen in 1937 and the third in Glasgow in 1938. The S.N.U.S is federated to the Confédération Internationale des Étudiants (C.I.E.), having applied for readmission to that body at its 18th Annual Congress, held in Sofia in Aug. 1936. The S.N.U.S. acted as hosts to the 20th Annual Congress of the C.I.E., which was held in Glasgow in Aug. 1938. A separate Department of the S.N.U.S. is devoted to the organization of student travel, reception of foreign students, and exchange and tuition (*au pair*) visits. Communications on these subjects should be addressed to the S.N.U.S. Travel Secretary, S.R.C. Office, University, Edinburgh, 8. The S.N.U.S. also maintains, in conjunction with the National Union of Students of England and Wales (N.U.S.), an "Honorary Academic Consulate." In many Univ. towns throughout the world a Consul has been appointed who will give advice and assistance to British students and graduates visiting his city, and who will introduce them to Univ. circles. The Keeper of the Register of Consuls, from whom cards of introduction to Consuls may be obtained, is Mr. A. S. R. Tweedie (address as above).

The National Federation of Canadian University Students, inaugurated Dec. 1926. First Annual Conference held at Univ. of Toronto, Dec. 1927. Last meeting, Univ. of Manitoba, Winnipeg, Dec. 28-31, 1937. Meetings now biennial. Next will be held in Dec. 1939. The Federation has complete charge of all student debating tours including inter-university debates in Canada, receiving of teams from all other countries, and sending teams out of Canada. Over 500 debates arranged since its inception. Officers, 1937–39: President, J. H. McDonald, McGill Univ., Montreal. Secretary-Treasurer, P. G. Davies, B.A., LL.B., Drawer 6, Clyde, Alberta.

The National Union of Australian University Students was formed at a Student Conference in Adelaide early in 1937. It was there decided that the Australian Union should follow broadly on the lines of the N.U.S. of England and Wales and should seek both to obtain and to give the fullest co-operation with similar bodies throughout the world. It is particularly interested in the exchange of students between the various States of Australia and in developing international exchanges. President, J. F. Samuel. Hon. Secretary, A. Stewart Ferguson, Union House, Univ. of Melbourne, Carlton, N.3, Victoria.

The New Zealand University Students' Association (National Union of Students) was founded in 1930. Its constituent organizations are the Student Unions of the 4 Univ. Colls. and the 2 Agric. Colls. constituting the Univ. of N.Z. Its objects are "to represent the views

of past and present students of N.Z. nationally and internationally; to maintain an effective cooperation with students in N.Z. and in other countries; to promote the welfare of all students, both past and present." Its activities comprise inter-university sports, debates, travel and foreign relations, concessions to students and all matters affecting student welfare. It appoints a Univ. graduate as its representative in England and is affiliated to the International Confederation of Students. Secretary, J. B. Aimers, LL.B., Norwich Chambers, Featherston St., Wellington, C.1.

THE NATIONAL UNION OF SOUTH AFRICAN STUDENTS was formed in 1924. Its members are drawn from most of the Universities and Colleges in S. Africa and its main practical achievements are the Annual Students' Overseas and Inland Tours and the study of National and International problems, through lectures, week-end schools, study circles, national conferences, etc. Since its inception nearly 3000 students have visited numerous countries in Europe, the Near East, Far East, America and Canada, while three parties of overseas students have toured S. Africa under its auspices. Secy., Roslyn Traub. All correspondence to be addressed to: The N.U.S.A.S. Office, 148 St. George's Street, Cape Town, S. Africa.

Among foreign organizations useful to British students the following may be mentioned:

Belgium—Fondation Universitaire, 11 rue d'Egmont, Brussels. Director: M. Jean Willems.

Czechoslovakia—(1) Kancelař pro studium v Cizině (Information bureau on studies abroad), Strakova akademie, Prague; (2) British Society, Na Přikopě 12, Sylva Tarucca Pal., Prague; (3) American Institute, Na Porici 12, Prague. Affiliated to the Institute of International Education, New York.

Denmark—Anglo-Danish Students' Bureau, 98 Great Russell St., London, W.C.1. Director: Mr. J. H. Helweg, Cand. Mag.

Dansk Studieoplysningskontor (Danish Students' Information Office), 6 Studiestraede, Copenhagen, K.

Egypt—Egyptian Education Office in London, 4 Central Buildings, London, S.W.1.

France—Office National des Universités et Écoles Françaises, 96 Boulevard Raspail, Paris VI. Director: Mons. A. Digeon, D. ès L., Recteur d'Académie.

London Branch: c/o Institut Français, 15 Queensberry Place, London, S.W.7. Director: Mons. L. E. Genissieux, L. ès L., Agrégé de l'Univ.

The French Ministry of National Education announced on Sept. 17, 1926, the admission to equivalence with the "baccalauréat de l'enseignement secondaire français" of every certificate of matriculation issued by one of the Universities of the United Kingdom and every diploma accompanied by an attestation of the Universities Bureau of the British Empire certifying that the diploma entitles its holder to admission as a regular student to degree courses in

one of those Universities. Certificates must be forwarded in original to the Secretary of the Bureau.

The Institut Français du Royaume-Uni is worked in conjunction with the Office National. Director, Prof. D. Saurat, D. ès L., Chev. Lég d'H.; Director of Studies, Mons. R. Garric, Agrégé de l'Univ. Founded in 1910 and attached to the Universities of Lille and Paris, the Institut consists of: a Faculty of Arts, where British students are prepared for the Certificate in French of the Univ. of London and the L. ès L. degree of the Univ. of Lille; public lectures; a mixed lycée; and a library. Provincial branches exist in Leeds, Nottingham and Brighton.

British Institute in Paris, 6 rue de la Sorbonne, Paris V. London Office: 1 Old Burlington St., W.1. *See* Appendix X.

Franco-British College of the Cité Universitaire, 9 Boulevard Jourdan, Paris XIV. Director, Mons. A. Desclos, M.C., Chev. Lég d'H. A residential college for 80 men and 140 women, French and British students in equal numbers.

American University Union (Paris branch of Institute of International Education, New York), 173 Boulevard St. Germain, Paris.

Germany—Deutsches Institut fur Ausländer, Universität Berlin, C 2, Universitätsgebäude. Publishes, monthly, *Mitteilungen.*

Deutscher Akademischer Austauschdienst, Berlin, N.W. 40, Kronprinzen-Ufer 13. Director: Oberregierungsrat Burmeister. Its object is to further relations between German and other Univs. and to promote exchanges between different countries.

London Branch: Anglo-German Academic Bureau, 45 Russell Square, London, W.C.1. Acting Director, Dr. jur. Gerhard Krause.

There is an Akademische Auslandsstelle (Information Bureau for foreign students) attached to all German Universities.

Inquiries regarding the former Austrian Universities and High Schools should be addressed to: Akademische Auslandsstelle, Schottengasse 7, Wien I. Director, Dr. Robert Katschinka. The Auslandsstelle has taken over the work formerly carried on by the majority of the educational associations mentioned in earlier issues of the *Yearbook*. It works in close cooperation with the Internationale Sommerhochschule auf Schloss Traunsee, Liebiggasse 5, Wien I., and the Amt für Studentenwanderungen, Schreyvogelgasse 3, Wien I.

Holland—(1) Netherlands Committee for International Academic Relations, Biltstraat 109, Utrecht; (2) Nederlandsch Bureau voor Buitenlandsche Studentenbetrekkingen (Dutch Office for Foreign Student Relations), Breestraat 41, Leiden.

Hungary—Magyar Nemzeti Diákszövetség, Semmelweiss-utca 2, Budapest IV.

Italy—Istituto nazionale per le relazione con l'estero, Via Lazzaro Spallanzani 1-A. Director, L. de Feo.

The British Institute of Florence, Palazzo Antinori, Piazza Antinori 3, comprises a School in English for Italians, with 3 years' (elementary), 2 years' (higher), and 2 years' (advanced) courses, a reading-room and library (20,000 vols.). It also organizes public lectures on contemporary

Italy and Italian art and architecture as well as concerts and musical lectures. Its Higher Diploma is of the standard of the Doctorate of an Italian University. Director: F. Toye.

Norway—Studie-Oplysningskontoret, Universitet, Oslo.

Switzerland—Schweizerische Zentralstelle für Hochschulwesen (Office Central Universitaire Suisse), Kasinoplatz 8, Berne. Director: Dr. P. Flückiger.

The University of Geneva accepts, for purposes of admission, a certificate of matriculation issued by a University of the United Kingdom or a certificate exempting from that examn., accompanied by an attestation of the Universities Bureau of the British Empire certifying that the certificate entitles its holder to admission as a regular student to degree courses in one of those Universities.

Certificates must be forwarded in original to the Secretary of the Bureau.

U.S.A.—Institute of International Education, 2 West 45th Street, New York City. Director: Dr. Stephen Duggan, O. Lég. d'H.

London Branch: American University Union, 1 Gordon Square, London, W.C.1. Director: Mr. Willard Connely, M.A.

ASSOCIATION OF UNIVERSITY TEACHERS. *Hon. Gen. Secretary*—Prof. R. Douglas Laurie, M.A., University College of Wales, Aberystwyth. The objects of the Association are: The advancement of University education and research, the promotion of common action among University teachers and the safeguarding of the interests of its members. Membership is open to all full-time teachers and research workers on the staffs of institutions of Univ. rank in England, Wales, and Northern Ireland. In addition to the ordinary members, who are at the same time members of one or other of the 27 Local Associations, there are attached members in instns. where no Local Assn. exists, and a few Corresponding Members in overseas Univs.; total membership about 1800. *Annual subscription*: Ordinary and attached members, 15s.; Corresponding members, 5s. *Publications*: *Various Special Reports; The Universities' Review* (May and Nov.), 2s.

For particulars of the Library Co-operation Inquiry Office, *see* Appendix V.

ASSOCIATION OF SCIENTIFIC WORKERS, 28 Hogarth Rd., London, S.W.5. Founded 1918. Aims at bringing together into one professional organization all qualified scientific workers, viz.: those engaged in (*a*) University and other Higher Educational Institutions and State-aided Research Institutions, (*b*) Industry and Consultative Practice, (*c*) State and Municipal Scientific Departments. Yearly subscription, 1 g. min. (with exceptions). Official journal, published 4 times a year, *The Scientific Worker*. President, Prof. F. G. Donnan, C.B.E., D.Sc., F.I.C., F.R.S. Hon. Secy., W. A. Wooster, B.A., Ph.D.; Asst. Secy., Mrs. Reinet Fremlin, M.Sc.

THE JOINT UNIVERSITY COUNCIL FOR SOCIAL STUDIES AND PUBLIC ADMINISTRATION. The Joint University Council for Social Studies was

established in 1918, having as object the co-ordination and development of the work of Social Studies depts. in connexion with the Univs. of Gt. Britain. In 1936 it was decided to relate the Council's work more closely to that of degree or diploma courses in public administration. Its membership was enlarged so as to include representatives of the teachers concerned with these courses and its name was altered accordingly. The Council now includes representatives of 16 Univs. and Univ. Colls. Annual affiliation fee, £4 : 4s. Inquiries to be addressed to the Hon. Secretaries, 50 Romney St., Westminster, S.W.1.

NATIONAL INSTITUTE OF ECONOMIC AND SOCIAL RESEARCH, 32 Gordon Sq., London, W.C.1. The Institute has been established to conduct research, either by its own staff or by other persons temporarily associated with it, into the facts and problems of contemporary human society; to provide assistance and facilities for research to members of Univ. staffs and others; to apply for funds in aid of such research; to collaborate with any similar organizations in other countries; to publish or to assist in publication of results of researches. Director, N. F. Hall, M.A., A.M. Inquiries to be addressed to the Secretary.

A JOINT STANDING COMMITTEE FOR EMPIRE EDUCATIONAL WORK has been formed under the chairmanship of T. Drummond Shiels, M.C., M.B., Ch.B., as a result of the Conference of Empire Societies called by the Secretary of State for the Dominions in Nov. 1934. Its purpose is to co-ordinate and to develop the educational work of all the non-party Empire Societies in London which include such activities in their programme. Inquiries should be addressed to the Hon. Secretary, Miss Gertrude Drayton, C.B.E., 81 Cromwell Road, London, S.W.7.

VII

STUDENTS FROM OTHER COUNTRIES IN THE UNIVERSITIES AND UNIVERSITY COLLEGES OF GREAT BRITAIN AND IRELAND

The total number of students from other countries attending courses in the Universities and University Colleges of Great Britain and Ireland during 1938–39 was 6264, an increase of nearly 200 over the 1937–38 figure. The students were distributed in the Universities and Colleges as follows :

Birmingham 128, Bristol 80, Cambridge 632, Durham 74, Leeds 164 Liverpool 142, London Colls. 3208 (Univ. Coll. 620, King's 225, Inst. of Education 91, Imperial 301, Queen Mary 62, Sch. of Economics 533, Sch. of Oriental Studies 94, Bedford (Women) 47, Med. Schools 713, Polytechnics 204, Schools of Music 130), Manchester 213, Oxford 523, Reading 53, Sheffield 85, Wales 60, Aberdeen 26, Edinburgh 412, Glasgow 91, St. Andrews 48, Queen's (Belfast) 11, Dublin 103, Nat. Univ. of Ireland 31. *Independent Colls.*—Exeter 73, Nottingham 82, Southampton 25.

An analysis of the figures for the various continents is given below. The number after the different countries is the total from that country and some indication of the distribution of the students is provided by the numbers enrolled at certain institutions.

EUROPE—Total, 1614.

Albania—2. *Belgium*—13: London Colls. 8. *Bulgaria*—10. *Cyprus*—28 : London Colls. 10. *Czechoslovakia*—43 : London Colls. 26. *Danzig*—5. *Denmark*—29 : London Colls. 10. *Esthonia*—13. *Finland*—19. *France*—65 : London Colls. 32. *Germany*—532 : Cambridge 46, London Colls. 336 (Univ. Coll. 58, King's 22, Imperial 30, Sch. of Economics 68, Med. Schools 46), Manchester 24, Oxford 26. *Gibraltar*—5. *Greece*—42 : London Colls. 23. *Holland*—77 : London Colls. 50. *Hungary*—71 ; London Colls. 33. *Iceland*—5. *Italy*—42 : London Colls. 31. *Latvia*—28. *Lithuania*—20. *Malta*—29. *Norway*—64 : London Colls. 33. *Poland*—195 : Leeds, 26, London Colls. 98 (Univ. Coll. 23, Sch. of Economics 20). *Portugal*—14. *Rumania*—54 : London Colls. 22. *Russia*—22. *Spain*—22. *Sweden*—22. *Switzerland*—54 : London Colls. 25. *Turkey*—48 : London Colls. 30. *Yugoslavia*—41.

ASIA—Total, 2180.

Afghanistan—6. *Arabia*—3. *Burma*—45 ; London Colls. 29. *Ceylon*—102 : London Colls. 74. *China*—233 : Cambridge 26, London Colls. 128 (Imperial 24, Sch. of Economics 56), Edinburgh 28. *East Indies*—6. *India*—1350 : Cambridge 131, Leeds 38, London Colls. 798 (Univ. Coll. 166, King's 59, Inst. of Education 25, Imperial 101, Sch. of

Economics 80, Sch. of Oriental Studies 49, Med. Colls. 197), Manchester 71, Oxford 62, Sheffield 25, Edinburgh 87. *Iran*—68 : London Colls. 23. *Iraq*—81 : London Colls. 49. *Japan*—25. *Palestine*—146 : London Colls. 96 (Univ. Coll. 21, Queen Mary 25, Sch. of Economics 22). *Siam*—55 : London Colls. 39. *Straits Settlements and F.M.S.*—55 : London Colls. 24. *Syria*—5.

AFRICA—Total, 1051.

Canary Islands—1. *Egypt*—383 : Birmingham 20, Cambridge 23, Leeds 40, Liverpool 29, London Colls. 143 (Univ. Coll. 19, Sch. of Economics 23, Med. Schools 53), Manchester 22, Edinburgh 19. *Mauritius*—29 : London Colls. 23. *Nigeria and West Africa*—72 : London Colls. 18, Dublin 18. *North Africa and Morocco*—3. *East Africa, Kenya and Seychelles*—23. *Rhodesia and Nyasaland*—8. *South Africa*—532 : Cambridge 95, London Colls. 209 (Univ. Coll. 17, Med. Schools 120, Schools of Music 26), Oxford 68, Edinburgh 56, Dublin 27.

AMERICA—Total, 1034.

Bermuda—6. *Canada*—271 : Cambridge 28, London Colls. 141 (Univ. Coll. 21, Med. Schools 52, Schools of Music 26), Oxford 42, Edinburgh 35. *Mexico and Central America*—11. *Newfoundland*—7. *South America*—61 : London Colls. 26. *U.S.A.*—517 : Cambridge 73, London Colls. 173 (Univ. Coll. 23, Sch. of Economics 70, Med. Schools 31), Manchester 134, Edinburgh 51. *West Indies*—160 : London Colls. 78 (Med. Schools 34), Edinburgh 18.

AUSTRALASIA—Total, 385.

Australia—253 : Cambridge 41, London Colls. 123 (Univ. Coll. 31, Med. Schools 36, Schools of Music 19), Oxford 57, Edinburgh 16. *New Zealand*—131 : Cambridge 17, London Colls. 69 (Med. Schools 18), Oxford 24, Edinburgh, 15. *Fiji*—1.

VIII

UNIVERSITIES OF THE UNITED STATES OF AMERICA

Students in this country intending to study in the United States are advised to apply to the American University Union, British Division, 1 Gordon Square, London, W.C.1. For Paris branch *see* Appendix VI. The Institute of International Education, 2 West 45th Street, New York City, publishes a *Guidebook for Foreign Students in the U.S.A.* containing information concerning graduate study and other facts of interest to a foreign student, 5th edn., 1937. A useful publication is *American Universities and Colleges*, edited by Clarence S. Marsh for the American Council on Education. (Third edition revised.) Published by Williams and Wilkins Company, Baltimore, Maryland, 1936. Cost $4.00. Pt. I. is devoted to a general explanation of the organization and operation of higher education, and Pt. II. gives separate statements of the individual colleges and universities arranged alphabetically.

EXPENSES. Annual tuition fees range from a maximum of about $500 in the large Eastern universities to a minimum of about $75 in the State universities and small colleges of the Middle West. Living costs vary according to the size of the college or university, and the size of the town in which it is located. In general, living expenses in the South are a little less than in the Middle West, and in the Middle West a little less than in the West and East. The cost of an academic year of nine months may be reckoned at about $1500 in the most expensive places. and $650 in the least expensive. Transportation costs about two cents a mile.

INTERNATIONAL HOUSE, Riverside Drive, New York City, opened Sept. 1924, is a residential club for over 500 foreign and American students. Similar houses have been opened at the Univ. of California, and at the Univ. of Chicago. The requisite funds for these three International Houses were provided by John D. Rockefeller, Jr.

SCHOLARSHIPS. For information as to American University and College Scholarships for British students *see* Appendix II. 32.

AMERICAN DEGREES (non-professional). The following notes are based on a Report presented by a Committee of the American Council on Education to the French Ministry of Public Instruction. The American Colleges, both those which are independent institutions and the colleges of liberal arts within Universities, award the A.B. (or B.S.) degree to students who complete a 4 years' course. Ordinarily the student at the time of admission to the college is about 18 years of age and has completed a 4 years' course in a secondary school. A considerable portion of his work at college belongs, however, to what

in European countries is called secondary education. A peculiarity of the American system of grading, both in secondary and in higher institutions, is the weight attached to the length of time spent under instruction, a degree being attainable by gradual accumulation of a specified number of " credits " (certificates of definite periods of time spent successfully under instruction), which thus largely replace the examinations used in other countries for testing the student's capacity at various intervals. The college graduate who aspires to the degree of A.M. (or M.S.) proceeds to the Graduate School of a University (the professional schools of first grade prefer and in some cases require graduate standing for admission), and there pursues his studies, either general or, if aiming at a subsequent doctorate, specialized, for one year. The Ph.D. requirements are ordinarily " 3 years of resident study, beyond the baccalaureate, the presentation of a thesis embodying the results of original research, and the passing of a comprehensive examination testing the candidate's knowledge of his chosen field of learning."

The Report points out that higher education in the U S.A. is largely autonomous, there being no control by the Federal Government and little control by the political authorities of any State. Such standardization as has been effected has come through the voluntary efforts of groups of institutions having similar ideals and purposes. Conspicuous among these is the Association of American Universities.

The following 30 American Univs. of complex organizations, usually with graduate schools and certain professional and technological schools, are members with voting privileges of the Association : .

Brown, California Institute of Technology, California, Catholic Univ. of America, Chicago, Clark, Columbia (including Teachers' Coll. and the International Institute), Cornell, Harvard, Illinois, Indiana, State Univ. of Iowa, Johns Hopkins, Kansas, Massachusetts Institute of Technology, Michigan, Minnesota, Missouri, Nebraska, North Carolina, Northwestern, Ohio State Univ., Pennsylvania, Princeton, Stanford, Texas, Univ. of Virginia, Washington (Missouri), Wisconsin, Yale.

In addition there are many educl. organizations of the first rank which are accredited by the Assn.

In the 1418 Universities, Colleges, Junior Colleges and Professional Schools which submitted returns for 1933–34 (Bulletin 1935, No. 2—Advance Pages—Government Printing Office, 1937) to the United States Office of Education, there were enrolled in that year 1,055,360 students with 615,720 men and 439,640 women. Of these institutions 501 were under public and 917 under private control. Of the total number of students more than 510,000 were listed as undergraduates and about 38,000 as graduates. Professional Schools enrolled more than 450,000 undergraduates and about 32,000 graduates. Law students numbered 36,445 ; medical 24,741 ; dental 7554 ; theological 11,477 ; pharmacy 7813 ; engineering 65,406.

THE BRITISH LIBRARY OF INFORMATION, 270 Madison Avenue, New York, established Dec. 1919 for the convenience of Americans desiring information on British current affairs, is a branch of the News Department of the Foreign Office, from which it is well supplied with official

documents and other publications. It has become the recognized centre for information on British Empire affairs. Wherever possible, official documents are lent, on request, to American libraries under the usual inter-library loan conditions. Early copies of documents dealing with matters of general interest, such as foreign affairs, finance, education, social welfare, industrial relations, mineral and oil resources, etc., are received regularly direct from London. The Library also has an important file of documents on Indian affairs, and some of the leading Indian newspapers. It is free to the public, and information is given to all inquirers. The Library is the official agent in U.S.A. for publications of H.M. Stationery Office.

A BRITISH-AMERICAN ASSOCIATION OF PHI BETA KAPPA (founded 1776—a society of American University scholars of distinction) was formed in England in 1924 under the presidency of Lord Balfour. Address: American University Union, 1 Gordon Sq., London, W.C.1.

ADMISSION TO BRITISH UNIVERSITIES. Information as to the conditions of admission of American students to British Universities will be found in Appendix I.

IX

ANGLO-AMERICAN RELATIONS

PROFESSORSHIPS

GEORGE WATSON LECTURESHIP. Founded by Sir W. G. Watson, Bt., who presented £20,000 for the purpose on the occasion of the return of the Prince of Wales from his American tour. Each year's course usually comprises about 6 lectures by an eminent authority, American or British. The courses are given in the various British Univs. in rotation. A general Inaugural Lecture was given in London by the late Viscount Bryce, O.M., in July 1921. This and some subsequent lectures have been published in England by the Cambridge Univ. Press. Lecturer, 1939: Mr. Frank Lloyd Wright. *Subject*: "Organic Architecture." The Foundation is administered by the Sulgrave Manor Board, 37 Charles St., Berkeley Sq., London, W.1.

GEORGE EASTMAN VISITING PROFESSORSHIP, tenable at Oxford Univ. The holder shall be, at the time of his election, a citizen of the U.S.A., eminent in teaching or research, and he shall give instruction in the subject of study in respect of which he is appointed. Appointment—not less than 1 nor more than 5 yrs., but re-eligible. 1938–39—Prof. T. Frank, Ph.D. (Prof. of Latin, Johns Hopkins Univ.).

HAROLD VYVYAN HARMSWORTH PROFESSORSHIP OF AMERICAN HISTORY, tenable at Oxford Univ. The Prof. shall be, at the time of his election, a citizen of the U.S.A. Appointment—not less than 1 nor more than 5 yrs. from date of election, but re-eligible. Salary, £1200 p.a. Present appointment: R. McNutt McElroy, M.A., D.Litt., Fellow of Queen's, to hold office until July 31, 1939.

COMMONWEALTH FUND PROFESSORSHIP OF AMERICAN HISTORY, tenable at the Univ. of London, University College. The Commonwealth Fund of New York has appropriated a sum of $214,500 to endow a Department of American History at University College, London, including a professorship and assistants. Present holder: Prof. H. Hale Bellot, M.A. Ox. A sum of £4866 was raised in London and New York, the income of which is available for the library of American History at the College, and the library on the same subject at the Institute of Historical Research, Malet Street, London, W.C.1.

The American Universities are constantly inviting distinguished British scholars to lecture on British History and institutions, so that the need for the establishment of special foundations for the purpose has not been felt in the United States.

X

INTERNATIONAL FEDERATIONS

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS (formerly International Research Council). Gen. Secretary—Prof. F. J. M. Stratton, Caius College, Cambridge. This body was constituted in 1919, in pursuance of a resolution adopted in Nov. 1918 at a Conference in Paris at which the principal Allied Academies were represented. Under the auspices of the Council, *International Unions* have been formed for Astronomy, Geodesy and Geophysics, Chemistry, Physics, Scientific Radio, Biological Sciences, and Geography. Next meeting of the Council at Copenhagen in 1940.

UNION ACADÉMIQUE INTERNATIONALE (for co-operation in the advancement of studies by means of collective researches and publications in the fields of Archæology, History, Philology, and Moral, Political, and Social Science). The Union was constituted in 1919 on the initiative of the Académie des Inscriptions et Belles-Lettres. 20 nations of Europe, Asia, and America have each 2 representatives nominated by their Academies. The annual General Assembly is held at Brussels towards the end of May. President for 1939, M. Waldo Leland. Administrative Secretariat, Palais des Académies, Brussels. Secretary, Baron M. de Sélys. Director, F. Lenridont.

MODERN HUMANITIES RESEARCH ASSOCIATION, founded at Cambridge in 1918, is now an international organization with members in 28 countries. Its main object is the encouragement of advanced studies in Modern Languages and Literatures by co-operation, through correspondence, personal intercourse, the interchange of information and counsel and the publication of original research and works of reference. Membership is open to graduates (and persons of the standing of graduate) of all Univs., British and foreign; to other persons, at the discretion of the Committee; and to approved institutions. Publications: *Modern Language Review* (quarterly, 25s. p.a.); *Annual Bibliography of English Language and Literature*, 8s. 6d.; *The Year's Work in Modern Language Studies*, 8s. 6d. Reduced prices to members. All pubd. by the Cambridge University Press. Hon. Secretary, Will G. Moore, M.A., St. John's College, Oxford; Sub-Secretary for America, Dr. L. R. Bradley, 100 Washington Square East, New York City.

INTERNATIONAL INSTITUTE OF INTELLECTUAL CO-OPERATION, 2 rue de Montpensier, Paris, 1er. Director: M. Henri Bonnet. Inaugurated Jan. 1926. The Institute forms part of the International Organization for Intellectual Co-operation, which is itself one of the four technical organs of the League of Nations. Established on the basis of an agreement concluded between the Council of the League of Nations of the one part and the French Government of the other. The Institute is the executive instrument of the Internat. Committee on Intellectual Co-

operation. Its duty is to assure in all countries the carrying out of the decisions and recommendations of the Committee and, under the direction of that Committee, and by every means in its power, to promote, through internat. co-operation, the organization of intellectual work throughout the world. The Institute is open on every working-day. Visitors received by appointment.

Information is given on the following matters:

1. The scientific study of international relations.

2. Certain general questions of intellectual co-operation, *e.g.*: exchanges of correspondence ("Open Letters") and the organization of "Conversations" between representative leaders of the intellectual world; the educational rôle of modern means of diffusion (Press, broadcasting, and the cinematograph); the internat. problem of documentation; publication of a collection of ethnographical and historical works on the origins of the American States.

3. Internat. relations: various internat. conventions are being considered. They relate, more particularly, to broadcasting in the cause of peace; the revision of school text-books; the protection of national artistic possessions; and the organization of art exhibitions.

4. Education: internat. collaboration between univs.; co-ordination of educational documentation and information centres; meetings of internat. student organizations; revision of school text-books; teaching of history; school questions, such as school broadcasting, internat. school correspondence, internat. travel and exchange of school-pupils, and liaison with the major internat. assocns.

5. Exact and natural sciences: collaboration between science museums; relations with the Council of Scientific Unions; co-ordination of scientific terminology.

6. Co-ordination of libraries and archives.

7. Literature: publication of an internat. bibliography of translated works (*Index Translationum*), of an Ibero-American Collection, of a collection of Japanese works.

8. Fine Arts: International Museums Office, International Office of Institutes of Archæology and History of Art; folk-arts.

9. Intellectual rights: authors' rights; scientists' and inventors' rights; protection of press information.

Methods of Work: 1. Internat. inquiries. 2. Publications (see below). 3. Meetings of permanent or temporary committees of experts.

The Committees of Experts are as follows:

Permanent International Studies Conference; Committee of Directors of Higher Education; Committee of Directors of Primary and Secondary Education; Committee of Library Experts; Directors' Committee of the International Museums Office; Committee of Archives Experts; Committee of International Student Organizations; Permanent Committee of Arts and Letters; Directors' Committee of the Office of Institutes of Art; Committee of Experts on League of Nations Teaching; International Folk Art Committee; Committee of Law Institutions specializing in the study of Intellectual Rights; Publication Committee for the Ibero-American Collection; Liaison Committee for Major International Associations.

National Committees of Intellectual Co-operation in this and many other countries also work in co-operation with the Institute.

Principal publications of the Institute:

I. Periodicals —*Intellectual Co-operation*: 1929, 1930 *et seq.*; *Mouseion*: 1927 *et seq.*; *Informations mensuelles. Index Translationum*, No 1, 1932 *et seq.*; *Science Museums*, No 1, 1933 *et seq.*; *Bulletin d'Archéologie et d'Histoire de l'Art*, No 1, 1934 *et seq.*; *Bulletin de la Correspondance scolaire internationale*, No 1, 1930 *et seq.*; *Students Abroad*, No 1, 1931 *et seq.*; *Holiday Courses in Europe*, 1928 *et seq.* (published also in French and German).

II. Volumes—"*Cahiers*" and an international intellectual co-operation series (classified under the following headings): Literature, Art, Libraries and Archives, Bibliography, Economic and Political Sciences, Education, Intellectual Rights.

THE BRITISH INSTITUTE IN PARIS, 6 rue de la Sorbonne, Paris Ve. Director—..... Institute-Annexe of the University of Paris.

The work of the Institute is divided into two sections:

(1) French studies for English students. This section assists Univ. graduates from Gt. Britain or the Dominions who are working for higher degrees at the Sorbonne or elsewhere, and gives such classes and courses in the French language and literature as should help students to follow more profitably the courses in French Univs., or to prepare for business careers in France or elsewhere. It organizes for the British Univs. courses of a term's length or longer (from Nov. to June) for groups of students who must come to France for some part of their preparation for a degree in French. It also organizes for the Board of Education, the Univs. and Public Schools, holiday courses of from 1 to 4 weeks in length, at Easter and in July and August.

(2) English studies for French students. This section provides classes and lectures on English language and literature, modern history and social conditions to help in the preparation for degrees in English or to prepare for careers in England or the Dominions. The session, beginning about Nov. 3, is divided into 2 semesters of 15 weeks each.

The premises include a library of 10,000 vols. and a club-room in which French and English students meet for tea and conversation. The office gives information regarding the various courses in the Univ. of Paris and the addresses of French families where students are received. The Director can usually obtain for research students introductions to professors and men of letters capable of assisting them.

London Office: 1 Old Burlington St., W.1.; Secretary, B. S. Townroe, M.A.

The CONFÉDÉRATION INTERNATIONALE DES ÉTUDIANTS was formed at Strasbourg in 1919 by official representatives of the National Unions of Students of Belgium, Czechoslovakia, France, Luxembourg, Poland, Roumania, and Spain, and unofficial representatives of students of 10 other countries which had, at that time, no national unions. Congresses have been held as follows: At Warsaw, Sept. 1924, Copenhagen, 1925, Prague, 1926, Rome, 1927, Paris, 1928, Budapest, 1929, Brussels, 1930, Bucharest, 1931, Riga, 1932, Venice, 1933, Nottingham, 1934,

Prague, 1935, Sofia, 1936, Paris, 1937, Glasgow, 1938. In 1939 the Congress will be held in Switzerland. The C.I.E. now embraces over 30 National Unions or national representative bodies. The number of students represented is about 850,000. It organized the Internat. Univ. Games at Rome in 1927; at Paris in 1928; at Davos and Darmstadt in 1930; at Bardonecchia and Turin in 1933; at Budapest and St. Moritz in 1935; at Zell-am-See and Paris in 1937. The 1939 Winter Games were held in Norway in February and the Summer Games will be held in Vienna in August. The Confederation aims at promoting friendship between students and student bodies throughout the world, and the study of international questions relative to higher education and the conditions of student life. President—J. Przezbziecki (Poland). General Secretariat, 83 rue de la Croix de Fer, Brussels.

The INTERNATIONAL FEDERATION OF UNIVERSITY WOMEN was founded in 1919 " to promote understanding and friendship between the university women of the nations of the world, and thereby to further their interests and develop between their countries sympathy and mutual helpfulness." It has branches in 34 countries. The Federation assists travelling members by providing introductions, and by the establishment of club-houses or other special facilities for accommodation in the chief centres of intellectual life. It provides travelling fellowships for women graduates (v. Appendix II.), and promotes the exchange of university and secondary school teachers, librarians, museum curators, archivists, etc., between different countries. Tours of special scientific or other interest are arranged in different countries. Officers (1936–39): *President*, Dean Virginia C. Gildersleeve, Barnard Coll., Columbia Univ., N.Y.; *Vice-Presidents*, Lektor S. Adamowicz, Warsaw; Dr. Karin Kock, Univ. of Stockholm; Prof. Dr. E. Patzelt, Univ. of Vienna; *Treasurer*, Miss J. M. Bowie, London; *Secretary*, Miss Erica Holme, Crosby Hall, Cheyne Walk, London, S.W.3. International Conferences are held triennially, and International Councils yearly between Conferences. The next Conference will be held in August 1939 at Stockholm. *Crosby Hall* was opened by the British Federation of Univ. Women, as a London residence and club for members of the Internat. Federation at Easter 1927. The residence is intended primarily for graduate students carrying on research or other advanced work in London. Application for accommodation should be made to the Warden, Crosby Hall, London, S.W.3.

THE WORLD'S STUDENT CHRISTIAN FEDERATION is a federation of the National Student Christian movements of 24 countries, and has relations with students in 17 other countries where there are not yet regular national movements. It was founded at Vadstena, Sweden, in 1895, by five students' organizations from N. America, Gt. Britain, Germany, and Scandinavia. It endeavours to unite, and to promote mutual relations among these movements throughout the world, and to collect and distribute information about the conditions of students in all lands from the religious and other points of view. It organizes international student conferences for the discussion of burning problems, religious, racial, educational, organizational. Publication: *The Student*

World (quarterly). Headquarters: 13 rue Calvin, Geneva, Switzerland. Cable Code: Missions Code. General Secretary: R. C. Mackie.

INTERNATIONAL STUDENT SERVICE, founded in 1919, has two different but complementary aims. It works to bring together university people of the most diverse races, religions, and politics, (1) in practical help for those among their community who need it, and (2) in objective study of the issues which tend to divide them. This work is carried out in four depts.: (i) Relief and Reconstruction. I.S.S. has raised approximately £600,000 to relieve, train and settle destitute students all over the world. (ii) International Education. Five or six international University Study-Conferences are organized each year on political, social, economic or cultural issues of the first importance. (iii) University Research. International inquiries are undertaken into such subjects as Graduate Unemployment, Academic Freedom, etc., and an International University Information Service maintained at Headquarters. (iv) Social Service and Student Self-Help. This Dept. covers the development of student self-help schemes and work camps for students of all countries.

There is a Cooperating Committee of I.S.S. for England and Wales and Cooperating Committees and individuals in 21 other countries. Chairman: Sir Walter Moberly, D.S.O., D.Litt.; Secretary, Mr. Anthony Scott, 49 Gordon Square, London, W.C.1.

The International Headquarters are at 13 rue Calvin, Geneva (Switzerland).

Publications: I.S.S. Bulletin (monthly); Annual Reports, Conference Reports, occasional papers and books.

The STUDENT CHRISTIAN MOVEMENT of Great Britain and Ireland is the British Branch of the World's Student Christian Federation. Publications: *The Student Movement* (monthly during term). Offices: Annandale, North End Road, Golders Green, London, N.W.11.

INTER-UNIVERSITY JEWISH FEDERATION of Gt. Britain and Ireland (federating all Jewish Univ. Societies in the U.K. and Ireland). Hon. Sec.: J. L. Swift, 7 Rosebery St., Prince's Park, Liverpool.

XI

SHORT BIBLIOGRAPHY

For Histories of Universities and other publications, *see* General Information—Publications sections—under the several Universities.

1909. *Principles and Methods of University Reform.* By Lord Curzon of Kedleston [deals with Oxford University]. Oxford. Clarendon Press. 2s. 6d. net.

1910. *Universities and National Life.* By Viscount Haldane. London. John Murray. 3s. 6d. net.

1911. *The Meaning of a University.* By Sir Walter Raleigh. Oxford. Clarendon Press. 1s. net.

1912. *Life in the Mediæval Universities.* By R. S. Rait. Published in the U.S.A. $1.60.

1921. *Universities and their Freedom.* By W. M. Childs, M.A. London. Arthur L. Humphreys. 2s.

1923. *University Extension: A Survey of Fifty Years, 1873–1923.* By W. H. Draper. Cambridge University Press. 3s. 6d.

1924. *The Universities and Educational Systems of the British Empire.* By Prof. A. P. Newton. [Vol. X. *The British Empire: A Survey,* in 12 vols.] London. W. Collins, Sons, & Co., Ltd. 16s.

1927. *A History of the University of Oxford.* Vol. III. *Modern Oxford.* By Sir Charles E. Mallet. London. Methuen & Co. 21s. net.

1927 and 1930. *The Degrees and Hoods of the World's Universities and Colleges.* By Frank W. Haycraft. 3rd edn., 4s. 6d.; Supplement, 1930, 2s. 3d. London and Cheshunt. The Cheshunt Press, Ltd.

1928. *Students' Life and Work in the University of Cambridge.* By Karl Breul. 3rd edn. Cambridge. Bowes & Bowes. 2s. net.

1928. *The New Universities.* By H. G. G. Herklots. London. Ernest Benn, Ltd. 6s.

1928. *On the Scope and Nature of University Education.* By J. H. Newman. London. J. M. Dent. 2s. net. [Originally published in 1852.]

1929. *England.* By Wilhelm Dibelius. (Book IV. *Education.*) [First pubd. in German in 1922.] London. Jonathan Cape. 15s.

1930. *The Life of a Modern University.* By Edwin Barker (and others). London. Student Christian Movement Press. 2s.

1930. *Universities—American, English, German.* By Abraham Flexner. Oxford University Press. 16s.

1930. *The British Universities.* By Sir Charles Grant Robertson, M.A., C.V.O. London. Ernest Benn, Ltd. 6d.

1931. *Universities in Great Britain: Their Position and their Problems.* By Ernest Barker, Litt.D., D.Litt., LL.D. London. Student Christian Movement Press. 3s. 6d.

1931. *The Government of Oxford.* Oxford University Press. 3s. 6d.

1931. *Select Discourses from The Idea of a University.* By John Henry Newman. Edited by May Yardley, B.A. (Landmarks in the History of Education Series.) Cambridge University Press. 5s. [The original work (1852) is out of print.]

1932. *The University in a Changing World.* A Symposium. Edited by Walter M. Kotschnig and Elined Prys. Oxford University Press. London. Humphrey Milford. 8s. 6d.

1933. *Making a University : An Account of the University Movement at Reading.* By W. M. Childs, M.A., Hon. D.Litt., Hon. LL.D. London. J. M. Dent & Sons, Ltd. 6s.

1933. *Scottish University Studies.* By A. Morgan. Oxford University Press. 7s. 6d.

1933. *The Obligation of Universities to the Social Order.* Addresses and Discussions at a Conference of Universities under the auspices of New York University, November 15-17, 1932. New York University Press. $2.

1933. *The Professions.* By A. M. Carr-Saunders and P. A. Wilson. Oxford. Clarendon Press. 25s. net.

1934. *The Older Universities of England, Oxford and Cambridge.* By Albert Mansbridge, Hon. M.A., Hon. LL.D., with drawings by John Mansbridge. (First printed in 1923.) London. Longmans, Green & Co. 3s. 6d.

1934. *The Universities of Canada.* Issued by the Anglo-Canadian Education Committee, Seymour House, Waterloo Place, London, S.W.1. 1s. post free.

1934. *An English Bibliography of Examinations 1900–1932.* By Mary C. Champneys. (Prepared for the International Institute Examinations Enquiry under the direction of Sir Michael Sadler and Sir Philip Hartog.) London. Macmillan and Co. 5s. net.

1935. *The Universities of India.* By P. Seshadri. Bombay and Oxford University Press. 3s.

1936. *Universities of Europe in the Middle Ages.* By Hastings Rashdall. New edition, edited by F. M. Powicke and A. B. Emden. Oxford University Press. 3 vols. 63s. [The original work (1895, 2 vols.) is out of print.]

1937. *Unemployment in the Learned Professions.* An International Study of Occupational and Educational Planning. By Walter M. Kotschnig, Ph.D. Oxford University Press. 12s. 6d. net.

1937. *The Technical Colleges of S. Africa.* By F. H. Spencer, D.Sc. Carnegie Corporation of New York.

1937. *The University of New Zealand.* By J. C. Beaglehole, M.A., Ph.D. New Zealand Council for Educational Research. 12s. 6d.

1938. *University and a Liberal Education.* By Sir H. J. C. Grierson. Oliver. 1s.

1938. *The Mediæval Universities.* By N. Schachner. Allen and Unwin. 12s. 6d.

1913. *Royal Commission on the University of London. Final Report.* London. H.M. Stationery Office. [Cd. 6717.] 2s.

1918. *Royal Commission on the University of Wales. Final Report.* London. H.M. Stationery Office. [Cd. 8991.] 1s.

1920. *Royal Commission on the University of Dublin (Trinity College). Report.* London. H.M. Stationery Office. [Cmd. 1078.] 4d. net.

1922. *Royal Commission on Oxford and Cambridge Universities. Final Report.* London. H.M. Stationery Office. [Cmd. 1588.] 6s. Out of print.

1935. *Royal Commission on the University of Durham. Report.* H.M. Stationery Office. Cmd. 4815. 1s. 6d.

University Grants Committee. Returns from Universities and University Colleges in Receipt of Treasury Grant. (Published annually.) London. H.M. Stationery Office. 1s. 3d. net. Returns for 1934–35 are included in Report for the period 1929–30 to 1934–35. 4s

Congress of Universities of the Empire: Report of Proceedings. 1st, 1912, 2nd, 1921, 3rd, 1926 (each 2s. 6d.), 4th, 1931, 7s. 6d. (obtainable only from the Universities Bureau); 5th, 1936, G. Bell & Sons, Ltd., London, 21s.

The Student's Handbook to the University and Colleges of Cambridge. 37th edn. Revised to 30 June 1938. Cambridge University Press, 7s. 6d. net.

Handbook to the University of Oxford. 1939. Oxford. Clarendon Press. 5s. net.

Students' Handbooks are issued by a number of other Universities, University Colleges, and University Students' Unions, including the following: Exeter; Leeds; Liverpool; London—University College and King's College; Manchester; Nottingham; Sheffield; Wales; Aberdeen; Edinburgh; Glasgow.

The Medical Practitioners' Handbook. (Contains sections relating to Postgraduate study and Fellowships, Scholarships, etc.). 1935. British Medical Association, British Medical Association House, Tavistock Square, London, W.C.1. 3s. 6d. net.

Report as to the conditions under which Medical and Dental Practitioners, registered or legally qualified in their own country, may practise abroad. Tenth edition, 1933. Published and sold for the General Medical Council by Constable & Co., Ltd., 10 Orange St., Leicester Square, London, W.C. 2s. 6d. [Out of print.]

Higher Education in Great Britain and Ireland. A Handbook for Students from Overseas. Published jointly by the British Council, 3 Hanover Street, London, W.1, and the Universities Bureau of the British Empire, 88A Gower St., London, W.C.1.

The Poor Student and the University. A Report on the Scholarship

System, with reference to Local Education Authorities' Awards and assistance to intending teachers. By L. Doreen Whiteley, B.A., F.L.A., for the Sir Richard Stapley Educational Trust. London. George Allen & Unwin, Ltd. 1933. 6s. net.

Handbook of Indian Universities. Inter-University Board, India. Annual. Rs. 2 or 3s.

Vacation Courses in England and Wales and Scotland. 6d. net. (Issued annually in April by the Board of Education.) London. H.M. Stationery Office.

List of Holiday Courses on the Continent for Instruction in Modern Languages and other Subjects. 4d. net. (Issued annually by the Board of Education.) London. H.M. Stationery Office.

Handbook of Student Travel in Europe. 5th edn. 1937. International Confederation of Students, Commission for Internat. Relations and Travel, 3 Endsleigh Street, London, W.C.1.

German Universities. A Manual for Foreign Scholars and Students. Published by the Deutscher Akademischer Austauschdienst E.V. (German Academic Exchange Service), Berlin N.W. 40, Kronprinzen-Ufer 13. 1932.

The German Educational System. A Survey submitted by the Deutsche Pädagogische Auslandsstelle, Berlin W. 35, Potsdamerstrasse 120, and the Deutscher Akademischer Austauschdienst E.V., Berlin C 2, Schloss. 1932.

Guide Book for Foreign Students in the United States. 5th edn. 1937. Pubd. by the Institute of International Education, 2 West 45th Street, New York City.

A List of International Fellowships for Research. The International Federation of University Women. 2nd edn. 1934. 2s.

Fellowships and Scholarships open to Foreign Students for Study in the United States. Bulletin issued by the Institute of International Education, New York.

Les Échanges universitaires en Europe, 3rd edn., 1932. League of Nations Institute of Intellectual Co-operation, 2 rue de Montpensier, Paris 1er.

Les Associations internationales d'étudiants. 1931. League of Nations Institute of Intellectual Cooperation, 2 rue de Montpensier, Paris, 1er.

Students Abroad. Bulletin of organizations concerned with students abroad. Half-yearly. League of Nations Institute of Intellectual Co-operation, 2 rue de Montpensier, Paris, 1er.

L'Organisation de l'enseignement supérieur. Vol i.: Allemagne—Espagne—États Unis d'Amérique—France—Grande-Bretagne—Hongrie—Italie—Suède. Vol. ii: République Argentine—Belgique—Chine—Japon—Pays-Bas—Pologne—Roumanie—Suisse—Tchécoslovaquie—U.R.S.S. League of Nations Institute of Intellectual Co-operation, 2 rue de Montpensier, Paris, 1er.

Atlas de l'enseignement en France. Commission Française pour

l'Enquête Carnegie sur les Examens et Concours en France. 1934. International Examination Inquiry, Musée Pédagogique, 29 rue d'Ulm, Paris Ve.

Holiday Courses in Europe, 1938. Compiled by the League of Nations Institute of Intellectual Cooperation, 2 rue de Montpensier Paris Ier. Also obtainable from Allen and Unwin, London, W.C.1, 2s.

Ferien-Kurse in Deutschland, 1939. Deutscher Akademischer Austauschdienst E V, Berlin N.W. 40, Kronprinzen-Ufer 13. Free.

Culture, Language, Literature, History and Art Courses for Foreigners in Italy in 1939. Segreteria della Regia Università Italiana per Stranieri, Palazzo Gallenga, Perugia.

Directories of the Universities and other learned institutions of the world:

Minerva, Abteilung Universitäten u. Fachhochschulen. Band I, Europa, 1938, RM. 42. Band II, Die aussereuropaischen Hochschulen, 1939, RM. 38. Abteilung Forschungsinstitute, Observatorien, Bibliotheken, Archive, Museen, Kommissionen u. Gesellschaften, 1937, RM. 58. (25 per cent. reduction to foreigners) Walter de Gruyter & Co., Berlin and Leipzig.

Index Generalis (by S. de Montessus de Ballore, 3 editions, French, English, American), annually. Annuaire de l'Enseignement supérieur dans le monde entier. Edité chez MM. Masson, 120 Boulevard St. Germain, Paris VI. London Agents. Dent & Son, Ltd, 10 Bedford St., W.C.2.

Annuaire général de l'Université et de l'enseignement français. 1938–1939. Rédigé et publié par l'Information Universitaire. 8 bis rue de l'Arrivée, Paris (XVe).

INDEX OF NAMES

OF

STAFF AND OFFICIALS

EXCLUSIVE OF THOSE IN APPENDICES

AARON, R I., 312
Aarts, W. H., 694
Abbas, S. M., 785
Abbasi, I. A., 755
Abbie, A. A., 613
Abbott, A. C., 507
C C., 81, 82
D. C., 488
E., 56
W. F., 507
Abbott-Smith, Rev. G., 494
Abdul Hafiz, H.M., 743
Abel, G., 477
Abell, T. B., 109, 115
W. H., 447
Sir W. S., 87
Abelson, S. G., 235
Abercrombie, L., 287, 315
M., 265
N. J , 336
P., 145
Aberdare, Lord, 331
Abhyankar, K. V., 734
R. N., 784
Ablett, R., 113
Abraham, A. J. M., 779
A. L. T., 779
H. J. M., 598
Abrahams, Sir A., 205, 221
A. M., 109
I., 659
Abrahart, B. W., 82
Abrams, M., 698
Abu Bakr, Md. M., 715
Acharya, B. G. S., 762
N. M., 795
P. K., 718
P. N., 730
Acheson, G. J., 693
Acker, J. C., 469
T. B., 469
Ackroyd, J. W., 346
Acland, Rt. Hon. Sir F., 191
Acomb, H. W., 81
Acton, H. B., 192
Adair, E. R., 486
G. S., 49
Adam, A. D. G., 599
D. B., 590
Adam, D. T., 88
J. A., 456
M. G., 248, 271
N. K., 345
W. B., 36
Adams, A. E , 28
A. W., 35
E. E. O., 469
J., 300
P. E. H., 254
S. B., 35
S. M., 549, 569
T. D., 633
W., 179
W. E., 95
W. G. S., 256
Adamson, A. M., 835
J., 644
J. D., 506
K. T., 601
Mrs. R., 100
R. S., 658
W. A D , 374
Adarkar, B. P., 717
Adcock, F. E., 47, 57, 137, 148
Addis, W. R , 236, 237
Addison, C. J. S., 111, 358
Rev. W. G. C., 37
Addo, A., 189
Adelaide, Governor of, 587
Adkins, E. W. O., 43
Adiseshan, R., 767
Adiseshiah, V. P., 767
Adler, S., 815
Adrian, E. D., 49, 61
Adshead, J. G., 466
Advani, M. H., 737
T. M., 737
Ady, C. M., 270
Afzal Md., 714
Agar, W. E., 599
Agar-Hamilton, I., 40, 681
Aggerwal, J. N., 788
Agharkar, S. P., 740
Agnes, Sister M., 551
Agnes Joseph, Sister M., 549
Agnihotri, G. P., 779
Agrell, S. O., 232
Ah, Z., 765
Ahad, N., 809
Aharoni, J., 816
Ahmad, A., 715
Ali, 758
Aziz, 782
D., 743
I , 718
M. M., 714
M. M., B Sc., 789
N., 713
N., Osmania, 783
Nazir, 789
Nazirudden, 750
Q. S., 714
S. S., 782
Zia-i, 714
Z. M. G., 717
Z., Osmania, 783
Z. U. D., 790
Ahmed, A. M., 742
D., 741
M., 743
M., Dacca, 751
M. M. Z., 737
N., 788
Sd. F., 783
Aiengar, V. G., 709
Aikenhead, D. C., 507
Aikin, W. A., 500
Ainley-Walker, E. W , 267
Ainslie, D. S , 553
Ainsworth, N. J., 215
Air Squadron, U. of L., Chief Instructor, 131
Aird, I., 374
J. A., 596
Airey, W. T. G., 642
Aitken, A. C., 366, 368, 369
D. E., 671
J. T., 382
R., 374
R. S., 361
Aitkenhead, A. C., 387
Aitkins, A. E., 358
Aiyar, N S , 723
S. P., 810
Aiyaru, C., 728
Akehurst, Mrs., 194
Akhtar, H., 788

Akhunji, A. R., 742
Alavi, M. H., 760
Al Qaiti, H., 783
Alam, M., 785
S. S., 794
Albeck, H., 816
Alberta, Lieut.-Gov., 449
Alberts, P. J., 677
Albiston, H. E., 600
Albright, E., 573
Alcock, H., 606
Alderman, A. R., 588
Aleem, A., 758
Alexander, A. J. P., 34
E., 815
F., 627
G. N., 597
H., 533
I. W., 369
J. B , 460
N. S., 832
P., 383
R. C., 400, 401
S., 246
W., 115
W. A., 374
W. G , 282
W. H., 456
Alford, E. J. G., 548
Algar, J , 423
Algie, R. M., 642
Ali, A. A., 713
Ahmed, 767
H., 767
Muhd., 783
M. H , 714
M. N., 784
M. S , 785
Sir R , 713
S. A., 793
S. B., 783
S. M., 783
S. N., 715
Sd. A , 784
Sd. Z., 718
Syed Azhar, 754, 755
Sir R., 713
Sir U., 713
W., 785
Allahabad, Dir. Pub. Instn., 708
Allaire, Sœur, 519
Allam, E. W., 98, 107
M. M., 239, 246
Allan, A. B., 808
D. J., 252, 258
G. A., 387
G. E., 385
J., 188
J. A., 450
J. T., 695
R. M., 600
R. S., 638
Allanson, M., 153
Allard, R., 515
Rev. V., 765
Allardyce, J., 459
Allaway, A. J., 246
Allberry, C. R. C., 54
Allcut, E. A., 555
Allemès, F., 180, 223
Allen, A. A., 498
A. G., 214
C. E., 601
C. K., 279
E., 86
Rev. E. L., 82, 87
F., 505
F. M. B., 408
Rt. Rev. G. B., 259
G. C., 111, 326
G. L., 418
G. V., 829
Sir H. P., 251, 263, 289, 389
H. S., 399
H. W., 601
I. I., 544
J., 232
L. A., 290
L. B , 506
N. C. B , 598
R. A., 573
R. A M., 617
R. G., 425
R. G. D., 181
R. L., 573
S. G., 215
T. P., 409
T. W., 265
W., 546
W. M., 258
W. R., 313
Alleyne, T. B., 147
Allibone, E. C., 100
Allin, E. J., 554
Allison, J , 399
P. R., 102
W. T., 504
Allmand, A. J., 150
Allsop, A., 95
Allway, A. J., 409
Aloysius, L. M., 764
Alstead, S., 387
Alston, L., 45, 63
Altekar, A. S., 730
Althouse, J. G., 560
Alton, E. H., 412, 413, 418
Alty, T., 385
Ambedkar, B. R., 735
Ambruzzi, Rev. A , 766
Amerasinghe, C. W., 820
Amery, G. D., 255, 258
Ames, D. H. M., 401
V., 542
Amesur, C. A., 735
Amies, A. B. P., 601, 602
Amira, B , 815
Amon, H , 832
Amory, D. H., 335
Amos, Rev. A. D., 323
Sir M. S., 75
Ampt, G. A., 596
Amrita, Row K., 818
Amyot, R., 517
Anand, B. M., 789
C. L., 789
H. S., 791
Anantakrishnan, S. V., 726
Anantanarayanarao, M., 768
Anantanpillai, P., 797
Ananthavaidyanathan, N., 726
Anderson, A. B., 388
A. F., 452
A G., M.D., 361
A. L., 541
C. G., 380
D., 390
Doris, 613
D. F., 388
D. L., 401
D. L., B.Com., 623
Rev. F., 575
F. H., 553
F. J., 743
G., 596
G. W., 346
H., 103
H. G. A., 393
Sir J., 18
J., Sydney, 615, 621
J. A., 385
J. C., 295
J. G. C., 406
J. M., 554
J. S., 596
L. G., 193
M. V., 596
N. C , 384
O. E., 462
P. S., 634
R. H., 613
R. L., 449
T. E., 361
V. G., 596
W., 240
W., Auckland, 642
W., M.B., 361
W , B.Sc , 367
W. A., 505
W. B , 45, 60, 305
W. F., 387
Anderton, Mrs. C. M., 86
Andison, J. G., 550
Andrade, E. N. da C., 143
Andrew, A. R., 634
J. H., 298, 302
Andrewartha, H. G., 590
Andrewes, A., 265
M., 191
U , 198
Andrews, J., 614
Lord Justice, 405
S., 405
W. A., 41
Andrus, J. R., 808
P. M., 574
Anglin, Rev. G. F., 544
Angrove, H. S., 535
Angus, Rev. C. F., 45, 62
Rev. G. H. C., 745
H. F., 459
R. H., 51, 61
R. W., 555
T. C., 204
W., 533
W. R., 317, 329
W. S., 78, 94
Annan, W., 366

Ansari, H. A., 782
Z., 785
Anschutz, R. P., 642
Anson, C., 270
Anstenson, A., 542
Anstey, V., 179
Ante, I. H., 558
Anthony, D. B., 307
J., 367
Antia, M. J., 736
Antoinette, Sr., 766
Anwyl-Davies, T., 214
Ap Gwynn, A., 311
Ap-Thomas, D. R., 307, 318
Appadurai, A., 764
Appajee, Y., 772
Appannah, T., 727
Appapillai, V., 820
Apparao, V., 721, 722
Apperly, R. E., 201
Appleby, J. C., 290
M., 800
Appleton, A. B., 201
E. V., 60, 241, 315
Appleyard, E. T. S., 32
Apte, N. K., 735
V. A., 737
Aquilina, J., 800
Aravamudhachari, S., 726
Archambault, J. P., 478
O., 513
Archbold, J. W., 142
Archdall, Rev. H. K. 350
Archer, C. T., 170
Rev. E. N., 618
K. G., 639
K. J., 803
R. L., 317, 320
Archibald, E. H., 459
J. G., 257
M., 97
W. L., 446
Ardagh, E. G. R., 555
Ardern, P. S., 641
Argue, C. W., 525
R. F., 504
Arkell, W. J., 264
Arkins, P. A., 434
Arkle, J. S., 89
Arkless, J. C., 87
Arkley, L. M., 533
Armes, H. P., 503
Armitage, G., 102
Armour, J. G., 491
J. S., 794
R. G., 557
Armstrong, A. H., 327
C. A. J., 261
C. N., 89
J. I., 626
J. R., 347
J. R., M.D., 574
L. E., 148
O. G., 415
S. R., 408
T., 40
T. H. W., 251, 259
W. C., 387
Arnason, T. J., 541
Arndt, E. H. D., 681
Arndt, E. W., 823
J. G. A., 670
W. F C., 670
Arney, S. E, 345
Arnold, I. D. O., 97, 411
Mother M., 619
R. K., 551
R. N., 394
Arnot, F. L., 399
Arnott, A. J., 618, 620
W. M., 373
Arnould, W. R., 338
Arora, G. L., 789
Arthur, C. L, 507
E. R., 555
W, 384
Arthure, H. G. E., 208
Arunachalampillai, M., 727
Asana, J. J., 734
Aschner, M., 815
Ascroft, P. B., 212
Ash, P. A., 618
Ashbel, D., 815
Ashburner, R., 614
Ashby, A. W, 313, 319
D. F., 32
E, 41, 614
H. T., 235
Ashcroft, E. B., 641
G., 238
L., 289
L. S., 115
Asheshof, I. N., 574
Ashford, C. A., 33
Ashley, C. A., 547
Ashmole, B., 139
Ashraf, S. H., 715
Ashton, E. M. R., 459
H., 46
Mrs., 189
T. S., 231
Ashton-Cross, D. I. C., 51
Ashworth, F. M., 231
H. I., 145
H. K., 238
M. H., 225
Asirvadam, E., 762, 763
Aslam, M., 782
Aspinall, Sir A., 834
A., 289
A., Aust., 618
Asprey, G. F., 382
Asrani, U. A., 731
Assaf, S., 816
Asselin, E. G., 515, 517
J., 514
Assie, G. L., 550
Astbury, Rev. H. S., 119
W. T., 103
Aston, F. W., 61, 733
K., 818
R. L., 616
Atherton, W. H., 514
Athill, L. F. I., 186
Athlone, Earl of, 125
Atholstan, Lord, 498
Countess of, 194
Atkin, W. R., 103
Atkins, G. A., 598
H. J. B., 212
Atkins, H. St. J., 429
J. W. H, 312
Atkinson, A. L. C, 543
B. F. C., 63
C. T., 260
D., 229, 233, 246
E. M., 498
F. S., 103
H. F., 238
K. M. T., 233
M. B, 86
W. C., 385
Atlee, H. B., 468
Atreya, B. L., 730
Attaulah, S., 713
Attlee, C. M., 340
Attygalle, N., 822
Aubert, A., 477, 481
Aubry, A., 176
H., 516, 517
Auchmuty, J. J., 413
Auden, G. A., 23
W. H., 107
Audet, L., 479
R., 476
Audus, L. I., 322
Auld, F. C., 552
J. G., 383
J. M., 459
Aulen, Bp., 404
Aung, Chan Tun, 808
Hla, 808
Htun, 807
Lha, 808
San Hla, 809
Austin, F. M, 20
J. L., 262
L. J., 536
M. D., 184, 185
R. G., 322, 326
R. P., 20
W. N., 81
Auty, R., 47
Avasare, M. D., 735
Avasthi, G. V., 760
Avasthy, A., 779
Aveling, F. A. P., 153, xxv
Avice, R., 826
Avnimelech, M., 815
Awasthi, S. P., 777
Awati, P. R., 736
Aydelotte, F., 279
Ayer, A. J., 259
Aylesworth, F. A., 557
Ayling, E. E., 327
Aylward, F. X., 124
Ayre, T. P., 88
Ayyanger, T. R. S., 764
V. S., 766
Ayyar, A. S., 765
C. V., 768
E. S. A., 764
G. G., 765
K. S. A., 764
K. S. P., 765
K. V. V., 767
L. N. S., 765
N. S., 764, 768
N. T., 767
N. Viswanatha, 726

Ayyar, P. E. S., 765
P. G. S., 765
P. R., 818
S. N., 764
S. S., 765
S. V., 750
T. S. V., 767
V. S., 765
Azad, S. M. Z. H., 751
Aziz, Md. A., 713, 750
Aziz-ul-Huque, M., 740

Ba, U., 810
Babbage, D. W., 48, 58
Baber, T. D. H., 297
Babington, P. L., 53
Babkin, B. P., 137, 148, 380, 487
Bachtin, N., 20, 349
Back, A. W., 678
Backeberg, O. G., 693
Bacon, F , 327
J. R., 194
Bacsich, P., 382
Baddeley, G., 239
Badeaux, F., 516
Badger, C. R., 600
Badhe, B. J., 818
Badkas, D. J., 818
Badock, S. H., 30
Baer, E. E. F. T., 549
F., 815
Bagchi, K. N., 743
R. N., 754
S , 741, 749
S. S , 743
Bage, F., 608
Bagi, B. B., 736
Bagnall, J. S., 469, 470
Bagster, L. S., 605
Bahadur, U., 755
Bahl, K. N., 759
Baiden, A. C., 533
Baier, C., 21, 306
Baildon, E., 298
Bailes, S., 86
Bailey, A. G., 525
C., 247, 257
C. R., 140
D. L., 548
F. W., 239
H. W., 52, 59
J. R., 373
K., 103
K. C., 412, 413, 420
K. H., 599, 602
K. V., 236
P., 498
S. H., 180
S. J., 51, 60
T. G., 187
V. A., 615
W. N., 233
Baillie, D. C., 552
Rev. D. M., 398
Rev. J., 368
J., 137, 156
Sir J. B., 107
W. H. T., 548
Bain, A. F., 492
Bain, D., 367
J. W., 555
K., 32
M. J., 368
R., 360
W. A., 98
Baines, H., 104
J. T., 76
Baird, A. C., 365
A. F., 525
A. M., 626
D., 361, 364
E., 827
J. C., 407
Bairstow, Sir E. C., 82
L., 166
Baissac, L., 826
Bajpeyi, B. P., 778
Bakė, A. A., 258
Baker, A. W., 561
B. B , 194
H., 248
H., Ph.D., 228
H. F., 59
H. W., 232
J , 415, 416, 420
J. F., 33
J. N. L., 250, 261, 280
J. O., 452
J. R., 253
J. W., 96
L., 41
M. B., 533
R. E. D., 834
R. K., 543
S. J. K , 112
S. L., 236, 238
W., 248, 265
W. C., 538
W. P., 53
Baker-Bates, E. T., 109, 116
Bakhshi, L., 713
I., 792
K., 787
R., 789
Bakshi, J. B., 753
K. M., 779
Bal, C., 731
D. V., 777
Balakrishnan, N., 764
Balakrishnannayar, T., 726
Balasingham, T., 829
Balcom, A. B., 446
Baldry, H. C., 658
Baldwin, Earl, 42, 397
E. H. F., 44, 60
J. G., 591
J. R., 502
Balean, H., 803
Balendra, W., 823, 824
Balfour, D. C., 567
H., 123
M. L. G , 266
R. E., 47, 57
Balfour-Melville, E. W. M., 369
Bali, A. N., 788
Baliga, S. P., 820
Balkin, I. J., 696
Balkrishna, 737
Ball, A. E., 177
Sir C. A. K., 416
C. F., 741
D. J., 44
E. S., 113
Sir G., 127, 212, 219
G. S., 118
I. W., 229
L. E., 132
N. G , 820
R. S., 63
U. N., 788
W. M., 598, 603
Ballantyne, A., 484
A. J., 387
A. M., 145
Ballard, L. A. T., 413
Ballardie, W. W., 99
Ballon, D. H., 490
Ballu, C. A., 504
Balme, D. M., 54
Balogh, E., 694
T., 144
Balsdon, J. P. V. D., 250, 260
Balson, E. W., 345
Balthazard, I. G., 554
Baly, E. C. C., 733
Bambridge, E. B., 563
Bamford, C. H., 62
P. G., 639
Bamforth, J., 202
Bancroft, M. F., 446
Band, D., 374
Banerjea, J., 749
Banerjee, B. D., 745
B. N., 88
D. N., 751
D. N., M.Sc., 731
H., 743
J. N., 795
K., 751
L., 742
Mrs. L., 744
S., 743
S. N., 795
Banerji, A. C., 718
A. T., 755
K. N., 794
N. C., 795
N D., 795
N. V., 755
S. K., 745
S. K., Lucknow, 758
T. N., 794
Banerji Shastri, A. P., 794
Baneth, D., 815
Banhatti, S. N., 778
Banister, H., 49
Baniza, P. N., 741
Bankart, A. S. B., 209
Banks, E. A H., 561
G. S., 362
Bannan, E. F., 425
Bannerjee, G. C., 735
Bannister, C. O., 115
J. L., 115, 323
Bannon, Rev. R. V., 539
Bansall, W. H., 76
Banting, E. W., 556
Sir F. G., 538, 556

Bantock, Sir G., 226
Banu, Mrs. J., 785
Bapat, G. B , 779
Barbados, Bishop of, 78
Barbeau, A., 514, 515
Barber, C. C., 32
E. A., 250, 260, 269
Rev. F. L., 570
H. H., 339, 341
H. W., 203
Alderman T. P., 339
Barberton, I. M., 665
Barbier, J. L. A , 312, 329
P., 107
Barbour, R. R. P., 588, 593
Barclay, J. A., 98
J. H., 90
M., 461
R. M., 635
Baroroft, H., 407
Sir J., 57
Bardhan, S. C., 795
Barendt, F. E., 82
Barfoot, Rev. Canon W. F., 508
Barger, E., 32
H , 144
Bargery, Rev. G. P., 187
Bari, A., 782
Baril, G.-H , 513, 516, 517
H., 516
Barke, E. M , 323
Barker, A. B., 588
A. E., 550
B. T. P., 30, 36
E., 49, 58, 193, 286, 733
Rev. E. L. B., 417
E. P., 339
Rev. J., 104
J. W., 50
M. L., 369
S. M., 194
W. F., 677
Barkla, C. G , 370
Barkworth, H., 184
Barling, S. G., 24
Barlow, F., 142
G., 22
H. E. M., 145, 146
W. L., 498
Barnard, H., 810
H. C., 289
S. P., 669
Barnell, H. R., 835
Barnes, A. A., 29
A. E., 299
A. Stanley, 23, 25
B. F., 224
C., 553
E., 765
H., 51, 56
H. G., 250
L. J., 111
S. R., 686
W. H., 485
W. H. F., 113
W. J., 693
Barnett, C. O., 639
E. de B., 224
E. C., 363
Barnett, G. M. F., 635
L. D., 188
Barnhardt, J H., 687
Barnicot, N. A , 144
Barnie-Adshead, W. E., 24
Barnville, H. L , 421, 426
Barnstead, W. G., 560
Baron-Hay, G. K., 626
Barr, A., 387
Barraclough, F. E., 617
G., 47, 60
Sir H. E., 616, 620
Barragán, J. V., 175
Barratt, A. J , 677
C., 196
N. M., 240, 306
T. J., 605
Barré, R., 514, 518
Barrer, R. M., 54
Barrett, A. M., 52
B. H., 384
Sir J. W., 595
N. R., 212
W. P , 151
Rev. W. R., 624
Barrett-Leonard, Sir F., 178
Barrie, H. J., 299, 300
Barrien, B. S , 587
Barrington, E. J. W., 342
F. J. F., 212
Barrington-Ward, F. T., 287
J. G., 259
Barris, J. D., 208
Barron, D. C , 300
D. H., 42, 60
H. T , 203
N. S., 291
V. M , 634
Barrow, F., 176
Barrowclough, C. B., 634
Barry, D. T., 429
G. M., 212
V., 432
Barss, A. F., 462
Barstow, Sir G., 327
Barth, K., 364, 404
Bartholomeusz, F. E. R., 822
Barthwal, P. D., 730, 759
Bartlett, A. W., 85
F. C., 49, 59
Mrs. F. C., 64
M. S , 48
Mrs. O. M., 88
R. J., 153
S., 291
Bartley, E. O., 408
J. O., 735
Bartrum, J. A., 641
Barua, B. M., 741
Basak, B. K , 809
R., 743
Basenach, Rev.
Bashiruddin, S. 29 F., 764
Baskett, R. G., 31 , 713
Basroor, V., 78, 23, 407
Bassam, B., 58, 81, 2
Bassani, A. M., 5, 60
Bassett, H., 268 , 142
H. LL., 3, 33, 88
M. E., 57. T., 22
Bassindale, R., 33
Basson, J., 687
Baster, A. S. J., 338
Basterfield, S., 541, 543
Bastien, M. H., 515
Basu, K. P., 750
N., 743
N. K , 731
N. M , 751
P., 710
R. K., 795
S., 795
S. K., 731
T. N., 795
Bataillon, M., 75
Batchelor, R. C. L., 373
Bateman, Rev. E. M., 416
G., 671
J. V., 543
Bates, L. F., 341
Mrs. N. M., 677
S., 465
Bath, the Marquess of, 30
F , 369
Batham, G. S., 634
Batho, C., 20
E. C., 141
H. F., 505
Batley, W. A., 298
Batson, E., 660, 665
R. G., 115, 120, 305
Batt, F. R., 113, 120
H. E , 562
Battaerd, P., 688
Battle, H., 574
Battye, J. S., 626
Baty, J. B., 533
Baudouin, G., 515
J. A , 516, 517, 518, 519
Bauer, D. J., 62
P , 40
Bauld, W. A. G., 490
Bawn, C. E. H., 31
Baxter, A., 359
E. F., 82
F. H. A., 492
F W., 406
Hon. J., 525
J. H , 398
J. S , 42
W. T., 657
Bayer, A. W., 67
J. G.,
E., 696
Bayes, R W. S., 288
W., 140
Bayford, V. E., 288
Bayley, A. G , 152
C. C., 486
Baylis, N. S., 626
Bayliss, C. W., 145
L. E., 370
N. S., 604
Bayly, B. de F., 555
Bayne, P. McE., 446
Baynes, N. H., 142
Bayzand, C. J., 250
Bazell, C. E , 262
Bazin, A. T., 498
Beacham, A., 406

Beadle, L. C., 88
Beaglehole, E., 644
J. C., 644
Beal, A. E., 168
Beale, E. P., 19
Beales, A. C. F., 151
H. I., 180
Beamish, F. E., 549
Bean, E. S., 468
R. J., 468
Beard, E., 357
J. R. S. G., 589
Beare, F. H., 589
M., 64
Sir T. Hudson, 368, 377
W., 31
Bearman, Mrs., 151
Beasley, C. G., 807
F. R., 627
Mrs., 807
Beath, R. M., 408
Beatson, E., 648
Beattie, Sir C., 651
F. J. R., 226
R., 246
W. J. H. M., 208
W. M., 109
Beatty, Sir E. W., 484
S., 552
S. A., 466
Beauchamp, A., 270
Beaudet, J.-M., 478
Beaudry, E., 477
Beaufoy, L. A., 151
Beaulieu, E., 515
M.-L., 478
Beaulne, L., 528
Beaumont, G. E., 205
I., 409
J. N., 414
R. L., 287
Beaupré, V. E., 514
Beaver, S. H., 180
Beazley, J. D., 94, 247, 261
Beck, E. C., 561
J. R., 486
Becker, B. J. P., 697
J. G., 697
Becket, E. M., 340
Beckett, Hon. R. E., 95
Beckwith, W. H. H., 469
Bédard, A., 477, 481, 515
P.-H., 483
Beddows, A. R., 314
Bedford, D. E., 205
G. V., 507
T., 204
T. G., 49, 73, 283
T. H. B., 236
Bedson, S. P., 202
Bee, J. W., 290
Beedham, R. N. K., 623
Beeley, E. W., 86
Beere, T. J., 413
Beet, A. E., 298
Beevers, C. A., 367
Beezhold, W. F., 681
Begbie, R. S., 803
Begg, M. M., 755
P. R., 590
Bégin, E., 477
Behan, J. C. V., 279, 601
Behar, R., 346
Beharilal, R., 755
Behrens, C. B. A., 47, 64
Bekker, S. P., 686
Bélanger, H.-H., 527
R., 516
V., 515
Belcourt, E., 515
Belekar, S. B., 778
Belfield, V., 249, 258
Belfour, A. O., 406
Béliveau, Rev. J., 508
Bell, A., 85
A. A., 400
A. C. H., 208
C. C., 151
F. Gordon, 635
F. O., 104
G., 618
G. D. H., 50
G. H., 385
H., 234
H., M.B., 662
H. E., 86
H. G., 561
H. I., 251
H. P., 465
H. S., 240
I. R., 452, 453
J., 412, 415
J., Ph.D., 383
J. F., 460
J. G. Y., 212
J. W., 488
Julia, 145
K. N., 257
L. G., 506
M. E., 634
P. G., 507
R., 366
R. E., 123
R. J. T., 634
R. P., 248, 258
Rev. W., 416
Bell-John, H., 680, 692
Bellamy, E. F., 248
R. G., 298
Belleau, J., 477, 478
Bellefeuille, G. L. de, 516
Bellerby, C. W., 153
Bellerose, A., 517
Bellot, H. H., 28, 142
Beloff, M., 260
Belshaw, H., 641
Belton, J. W., 96
Belvalkar, S. K., 730
Belz, M. H., 598
Bemrose, H. H., 339
Benade, J. M., 789
Benares, Maharajah of, 730
Bence-Jones, P. R., 788, 791
Benecke, P. V. M., 262
Bengal, Gov. of, 740, 750
Bengough, E. J., 500
Bengry, R. P., 95
Benham, E. W., 588
F. C. C., 179
Benians, E. A., 59, xxv, xxviii
Benjafield, J. D., 202
Benjamin, J. A., 597
Benn, E. C., 100
T. V., 97
Bennet, C. L., 465, 466
Bennet-Clark, T. A., 339
Bennett, A., 397
D. M., 304
E., 33
E. K., 47, 56
F. C., 607
F. J., 638
F. T., 88
G. A., 241
G. M., 150, 305, 306
G. T., 55
H., 549, 570
H. S., 46, 55
J. A. W., 265
J. S. W., 43
K. E., 552
Rev. L. E., 619
Mrs., 46
Sir N. G., 215
R. F., 58
T. I., 205
W. G., 560
W. G., Aust., 608
Bennison, H., 238
Benoit, E. P., 516
R., 476, 478, 481
Bensen, R. C., 501
Benson, C. C., 550, 563
E. M., 37
M., 83
W. N., 633
Bentley, A. O., 341
F. H., 237
H. B., 306
J., 81
J. A., 542
Bentwich, N., 815
Berchmans, Sister M., 551
Berchon, F., 826
Berdan, H. B., 572
Berelowitz, H., 661
Berendsohn, W., 75
Berger, L., 480
Bergeron, D., 529
O., 477
Bergh, I., 677
Bergin, F. G., 35
O., 424
Bergmann, H., 815
Beri, S. G., 736
Berlin, I., 264
Bernal, J. D., 76, 177
Bernard, Fr. A., 498, 514
A. V., 801
L., 517
Sister M., 551
Bernardelli, H., 807
Bernhardt, K. S., 524, 554
Bernier, A., 478
P.-E., 476
Bernita, Sister M., 550
Berrill, N. J., 487
Berry, A. E., 555
A. J., 44, 55
D., 606

Berry, D. W., 361
H., 211, 216
J., 346
J. L., 23
N. E., 536
T. B., 698
W. E., 36
Berthon, H. E., 267
Bertram, A., 246, 405
Bertrand, A., 516
Berwick, W. E. H., 318
Besant, A. D., 139
Bescoby, H. B., 184
Besicovitch, A. S., 48, 62
Best, C. H., 148, 554, 559
R. J., 591
Bethell, E., 600
S. L., 323
Bethune, C. M., 469
Bethune-Baker, Rev. J. F., 58
Bettex, A. W., 47
Bettley, F. R., 332, 333
Betts, J. A., 288
R. R., 346
Beukes, W. T. H., 680
Bevan, E., 298
T., 240
Beveridge, Sir W. H., 267
Beves, D. H., 46, 57
Bevin, R., 646
Bexon, D., 339
Bezzart, Rev. J. S., 111
Bhaduri, S., 743
Bhagavantam, S., 722
Bhagwat, V. K., 736
Bhalla, M. D., 788
Bhandari, D. R., 755
Bhandarkar, D. R., 730
S. S., 734
V., 717
Bhar, G., 743
Bharadwaj, V., 731
Bhargava, D. P., 794
S. R., 718
Bharathi, S. S., 729
Bharucha, F. R., 736
P. B., 791
Bhaskaran, R., 726
Bhat, U. S., 723
V. G., 736
Bhatia, B. B., 737
G. S., 777
K. L., 789
M. L., 759
S. L., 735
Bhatnagar, B. G., 717
K. S., 710
S. S., 787
Bhattacharya, A., 754
A. T., 758
B. M., 777
D. R., 718
K., 730
K. K., 718, 749
N., 737
S. N., 730
Bhattacharyya, B., 730
B. B., 744
D., 744
Bhattacharyya, H., 751
N., 743
N. C., 744
R., 744
S., 743
S. N., 794
S. N., Dacca 757
Bhawalkar, N. B., 778
Bhide, B. V., 738
Bhusari, R. M., 783
Bhuvarahampillai, A., 727
Biaggini, E. G., 591
Bibas, H., 63
Bibby, A., 83
E. E., 96
J. P., 102
Bickersteth, G. L., 358
J. B., 566
M. E., 368
Bickerton, J. M., 209
Bickford, C. R., 616
Bickley, O. D., 271
W. G., 169
Bicknell, P., 43
Bidez, J., 402
Bidgway, C. V., 597
Bieler, A., 536
Biely, J., 462
Biesheuvel, H., 660
S., 695
Bigelow, H. E., 522
Biggart, J. H., 408, 411
Bigger, J. W., 415, 416
Biggs, G. M., 557
Bigland, A. D., 124
Bihar and Orissa, Gov. of, 794
Bikanir, Maharajah of, 730
Bilgrami, A. H. S., 788
Bilron, Justice R., 497
Billing, G. C., 633
Bilodeau, E., 478
Binchy, D. A., 425
Bindoff, S. T., 142
Bingham, C., 606
R. T. W., 598
Bingle, E. J., 765
Binnie, A. M., 249, 264
Binns, F. W., 522
Rev. J. B., 199
Binyon, D. E. F., 96
L., 256
Birbaum, S., 187
Birch, B. G., 804
H. M., 589
T. W., 63
Birchard, C. C., 489
Bircumshaw, L. L., 335
Bird, A. H., 184
A. L., 51
C. L., 103
H., 312
J. N., 492
Birkett, G. A., 297
Birkhead, E., 31
Birks, F. H., 323
Birley, E. B., 81
Birney, A. E., 549
Birnie, A., 368
Birrell, J. A., 33, 34
Birtwistle, I. T., 627
Bisbee, R. C., 114
Bishop, P. M. F., 211
W. B., 461
Biss, I. M., 567
Bisschop, J. H. R., 684
Bisset, G. B., 290
K. A., 371
N., 322
Bisson, L. A., 250, 265
Bissonnette, R., 515
Biswas, S., 744
Bithell, J., 178
Bjorkquist, M., 160
Bjornson, O., 512
Bittner, C. J., 573
Black, A. N., 249
D., 317
D. J. G., 290
E., 507
E. I., 114
G. W., 100
H., 24
H., Otago, 634
H. D., 614
J., 696
J. B., 359
J. M., 587
Miss J. M., 771, 773
M., 47, 62
Rev. M., 239
M. S., 383
M. W., 689
W. G., 460
Blackaby, J. H., 255
Blackadder, W., 358, 362
Blackall, A. K., 22
Blackburn, E. M., 96
G. A., 539
J. M., 180
K. B., 85
W. H., 103
Blackett, P. M. S., 53, 234
Blackham, S., 83
Blackie, A. R., 634
Blackler, C. F., 538
Blacklock, D. B., 118, 123
J. N., 491
J. W. S., 388
Blackman, A. M., 109, 112, 123
Mrs. E., 148
F. F., 59
G. E., 166
M., 170
S., 211
V. H., 170, 733
Blackwell, Mrs A. M., 151
E. M., 194
Blackwood, B. M., 247
E. F., 470
W. C., 561
Bladen, V. W., 554
Blagden, C. O., 188
L., 517
Blaiklock, E. M., 641
Blair, D. MacC., 382
E. M. McV., 408
G. W. Scott, 291
I. D., 646
Sir J. W., 605

Blair, P. H., 43, 55
R. D., 383
Blais, A., 453
Blake, J. W., 406
Blakey, D., 460
O. F., 627
Blakiston, Rev. H. E. D., 286
Blanchet, R., 480
Blanckensee, E., 627
Bland, C. H., 472
F. A., 614
Blanesburgh, Lord, 150
Blank, D., 233
Blatz, W. E., 538, 554
Blazé, J. R., 822
Bleakley, M. C., 638
Blease, W. L , 113
Bledisloe, Rt. Hon. Viscount, 30
Bleek, D. F , 657
Blegen, C. W., 75, 286
Bleksley, A. E. H., 694
Bletcher, H. E , 505
Blewett, J. E , 361
Blezard, S. E., 184
Bligh, J. Murray, 116, 117
Bliss, M., 683
Bloch, M., 75
Blochmann, E. F. E., 270
Block, M., 669
Blockley, Rev. T. T., 268
Blomfield, G. W., 100
J. E., 270
Blondal, A., 507
Bloom, A., 696
Bloomer, V., 239
Blundell, J. E., 36
Blunden, E. C., 263
Blunt, A , 36, 40
A. F., 161
Blyth, Rev. A. C., 63
F. G. H., 169
J. S. S., 371
Blythen, S., 339
Boas, W., 598
Boase, A. M., 383
T. S. R., 160, 161
W. N., 404
Bobtelsky, M., 814
Bodan, S. M., 390
Boddie, G. F., 376
Boden, F. C., 336
F. H , 21
Rev. J. P., 83, 84
Bodenheimer, F., 816
Bodier, M.A., 406
Bodkin, G. E., 826
T., 19, 412
Bodmer, F., 659
Body, L. A., 83, 84
Boeke, J., 137
Boeschenstein, H., 551
Boethius, C. A., 75
Bogie, D. J., 366
Bogue, J. Y., 227
Boggan, R. H., 212
Boillot, F. F., 31
Bois, E , 476
Boissard, G. P. B., 606
J. M., 332
Bokhary, S. G. A., 188
Bokhorst, M, 681
Bolam, M. R., 367
R. M., 89
T. R., 367
W. N., 225
Boland, E. R., 205
Bolas, B. D., 170
Boldero, H. E A., 205, 219
Bollert, M. L , 460
Bolsover, G. H., 233
Bolté, R., 513
Bolton, E , 217
Bolus, Mrs. F., 658
Bombay, Gov. of, 734
Bonavia, M. R., 125
Bond, G., 382
H., 76
M., 211
T. E. T., 357
Bondy, Rev L. J., 550
Bone, G. D., 266
W. A., 173
Bonhoure, Rev. A., 766
Bonin, W., 516
Bonn, M., 180, 749
Bonner, S. F., 111
Bonnici, Rev. A., 801
Most Rev. C., 801
J , 801
M., 800
Bonser, Mrs., 101
W., 19
Bonsma, F. N., 683
Bonython, Hon. Sir L., 591
Booker, H. G., 48, 54
Boomer, E. H., 449
Boon, T. H., 89
Booth, E. H., 619
E. M , 415
F. A., 88
N. H., 36
Boothroyd, E. E., 457
Borah, M. I., 708
Borenius, T., 140
Borg, C , 800
S , 801
Borgaonker, V. G., 784
Born, M., 370
Borooah, J., 709
Borradaile, L. A., 63
Borrah, M. I., 751
Borrie, W. H., 635
Borthwick, G. R., 101
J., 366
P. M., 231
Bosanquet, L. S., 142
Bose, A. N., 794
C., 742
C. H., 708
H. N., 731
K. K., 795
M., 744
M. N., 741
P., 744
P. K., 742
R. N., 745
S., 741
S. K , 754, 755
S. K., Patna, 795
Bose, S N., 751
S N., LL.B , 755
Boseley, W. D., 294
Bosman, A. M., 683
D. B., 659
F. C. L., 660
H. M., 661
I. D., 681, 682
J. C., 682
Bossé, G , 476
Bostock, J. K., 250, 269
Boswall, R. O., 240
Boswell, A. B., 114
J. G., 295
K. C., 345
M. C., 555
W. E., 341
Botha, J. H., 691
Bott, E. A., 554
Botterell, E. H., 554
Bottomley, E. E. K., 595
Bottrall, F. J. R., 186, 833
Bouchard, G., 476
Boucher, D. W., 536
R., 517
Boudreau, H., 515
Bouet, S., 817
Boughey, A S., 367
Boulanger, M., 476
Bould, C., 319
Boulenger, C. L., 192
Boult, D. R., 264
Boulton, N. S., 297
Bouman, A. C., 688
Bourdot, Rev. J., 765
Bourgeois, B.-G., 517
Hon. C., 529
Bourget, M. A., 477
Bourke, E. T., 492
Bourne, A. W , 208
C. R., 489
G., 205
M. C., 143
R. C., 287
W., 489
Bousquet, P.-E., 520
Boutflour, R , 30, 37
Boutin, F., 477
J., 518
Boving, P. A., 462
Bow, M. R., 453
Bowbyes, A. M., 633
Bowden, A. T., 627
F. P., 44, 56
K. W., 240
S. T., 322
Bowen, A. R., 341
E. G., 312, 329
E. J., 248, 267
G., 384
I., 166
I. I., 258
J. E., 363
R., 289
Bower, F. O., 382
Bowes, R. K., 208
Bowie, D. J., 498, 503
F. J. T., 361
Bowler, M., 424
Bowles, C. W., 679

Bowles, R. E., 239
Bowley, A. L., 256
Bowman, F., 240
H. L., 251, 262
R. M., 617
Bowra, C. M., 250, 267
Bowstead, J. E., 451
Box, H. K., 559
Boxer, S. V., 803
Boyanus, S. C., 162
Boyd, A., 606
Rev. A. J., 765
E. M., 535, 536
G. I., 95
J., 250, 265
J., LL.B., 386
J. D., 54, 76
J. D., M.D., 201
M., 406
T. C., 742
W., 383
W., Canada, 557
Boyd-Wilson, E. J., 644
Boydell, Mother H., 619
Boyes, D., 73
J., 393
Boylan, Very Rev. P., 424
Boyland, E., 202
Boyle, C., 429
H. E. G., 201
Mrs. M., 429
Boyns, B. M., 360
Boys, S. F., 407
Boys Smith, Rev. J. S., 45, 60
P., 155
Bozman, A. M., 403
Bozzolli, G. R., 695
Bracher, R., 30
Bradbeer, E. G., 33
Bradbrook, M. C., 63
Bradbury, F. R., 339
J. L., 119
R., 85
Braddick, H. J. J., 177
Braddock, A. P., 20
Braddon, P. D., 613
Brade-Birks, S. G., 184
Bradfield, A. E., 317
Bradford, E. J. G., 296
Bradlaw, R. V., 91
Bradley, A. J., 49
D. W., 97
Rev. F., 527
F. W., 111, 113
H., 363
K. I., 228
R. S., 96
R. W., 454
W., 239
Bradshaw, E., 394
J. C., 639
Brady, A., 554
C. L., 140
Bragg, W. L., 49, 62
Brahma, N., 743
K. V., 776
Brahmachari, Sir U. N., 740, 742
Braid, F., 20
K. W., 390
Brailsford, J. F., 19
Brain, R. T., 203
W. R., 205
Braithwaite, C., 23
L. R., 107
R. B., 49, 57
Braley, Rev. E. F., 81, 82, 83
Brambell, F. W. R., 318
Brameld, N. M., 340, 341
Bramfitt, G. N., 560
Brammall, A., 168
Bramwell, J. C., 236
Branch, W. J. V., 347
Brand, F. J., 461
Hon. R. H., 257
Brander, L. R. M., 758
W. B., 472, 524, xxix
Brandin, L. M., 141
Brandon-Jones, J., 110
Branion, H. D., 561
Brandt, W., 19
Brash, J. C., 366
Brassington, A. C., 639
Brauer, E., 814
R., 552
Brault, J., 516
Braun, L. I., 696
M. F., 698
Braun-Menendez, E., 148
Braunholtz, E. G. W., 49
G. E. K., 143, 251, 268
Brayshaw, H. C., 698
Brebner, I. W., 697
Brecken, Rev. E. R., 523
Breglia, S., 156
S. G. C., 48
Bremer, K., 661
Bremner, A., 299
A., D.Sc., 358
Brenan, Rev. M. A., 421
S. H., 102
Brenchley, W. E., 224
Brend, W. A., 204
Brendel, F. C. L., 174
Brennan, C. J., 407
H. G., 385
Brenner, O., 19
Brentano, J. C. M., 234
Brentnall, C. P., 236
Brereton, R. L. G., 619
Bretherton, R. F., 252, 267
Brett, G. S., 553
Brett, M., 224
Brett-Smith, H. F. B., 249, 258, 261, 265
Brettingham-Moore, E. R. E., 608
Brewer, F. M., 248, 269
Brewis, G. R., 268
Rev. J. F., 82
Rev. J. T., 239
Brews, R. A., 208
Brewster, B. L., 598
Breyer, J. H., 698
Breyer-Brandwiyk, Mrs., 700
Breytenbach, J. C. V., 680
Brice, L. J., 226
Bride, J. W., 236
T. M., 236
W. L., 240
Bridge, Rev. P. C., 743
Bridges, A., 255
D., 192
Brieger, P., 548
Brierley, J. C., 240
J. L., 253, 257
W. B., 290
Briffa, J., 800
Briggs, E. A., 616
E. R., 46
G. E., 44, 60
G. H., 615
L. H., 641
Brighton, A. G., 63, 72
Brigstocke, W. C., 111
Brill, E. V. K., 399
Brimelow, T., 265
Brindle, H., 236
Brindley, G. W., 98
H. H., 60
Brink, C., 682
C. P., 669
H. E., 688
Brinkworth, J. H., 170, 211
Brinton, D. H., 205
Briscoe, H. V. A., 167, 305
Brissen, Rev. M. A., 576
Bristow, W. R., 209
British Columbia, Lt.-Gov. of, 459
Britnell, G. E., 543
Briton, N. W., 605
Brittain, D., 154
F., 56
W. H., 487, 492, 493
Britten, L. L., 677
Britton, H. T. S., 335
K., 328
Broad, C. D., 49, 61, 107
Broadbent, B. T., 238
Broadfoot, R. C., 768
Broadhead, H. D., 638
Mrs., 176
Brock, J. F., 76, 661
R. C., 212
Brockbank, W., 229, 236
Brocklebank, E. E., 544
Brocklehurst, R. J., 33, 38
Brockless, G. F., 226
Brockman, E. P., 209
R. St. L., 300
Brocks, A. W., 362
Brockway, K. N., 768
Broderick, R. A., 24
T. S., 412, 414
Brodetsky, S., 97, xxvii
Brodie, H. J., 498, 503
J., 506
J. B., 552
Brody, F. J., 295
H. P., 299
Broekhuysen, G. J., 660
Brogan, D. W., 259
Bromley, J. S., 113
L., 212
Bronk, D., 498
Bronson, H. L., 466
Brook, A. T., 168
G. L., 232
Rev. V. J. K., 257, 269

Brook, W P, 27
Brooke, Rev. A. E., 57
A. K., 408
D., 110
K., 359
Z. N., 47, 56
Brooker, M., 504
Brookes, A., 813
R. C., 115
Brookfield, R. W., 116
Brooks, A. G., 225
E. C., 491
F. T., 44, 55
W. D. W., 205
W. H., 225
Broomhead, R., 95, 102
Broster, L. R., 212
Brothers, C. A., 294
Brough, J, 235
M. C., 235
P., 614
R., 382
Brougham, L. A. M., 590
Brovedani, J. H., 535
Brow, G. R., 489
Brown, A., 370
A., Canada, 557
A., S.A., 659
A. Barrett, 282
A. B., 268
A. B., D.Sc., 449
A. J., 257, 261
A. W., 113
A. W., N.Z., 639
D., 642
D. B., 382
E., 367
E., M Sc., 487
E. B., 597
Edith, 542
E. H. Phelps, 247, 263
E. J., 95
E. K., 549, 567
E. W., 76
F., 181
F. J., 235
F. R., 401
G., 589, 590
G. B, 143
George, 384
G. W., 551
H., 113
H. R., 341
I. A., 615
I. E., 96
J., 361
Rev. J. G., 462
J. McC., 505
J. M., 400
J. M B., 249
J. R., 644
Justice, 405
K. Paterson, 373
L. G., 205
L. M., 394
M., 635
M. H., 556
M. R., 64
N., 490
O. N., 488
Brown, P. P., 151
P. S., 37
R. C., 143
R. D., 361
R. F., 112
R. J., 555
R. M., 386, 391, 708
R. M., Canada, 460
R. N. Rudmose, 296, 302
R. W., 504
S. L., 415
Rev. S. L., 199
T., 103
T. A., 336
T. G., 324
V., 86
V. R., 562
W., Ox., 252, 282
W., Aberdeen, 365
W., B.Sc, 804
W., London, 166
W. J., 572, 574
W. T, 553, 570
Browne, A. D., 51, 58
B. C., 46
D., 296, 302
F. J., 208
G. S., 596, 601
J. G., 489
J. S. L., 489, 490
O'D. T. D., 416
Rev. P. J., 421
R. A., 317
W. R., 615
Brownell, G. McL., 504
Browness, E. R., 562
Browning, A., 384
C. H., 386
H. M., 341
Brownlee, A., 332
Brownlie, W. M., 319
Brownrigg, N. E., 493
Bruce, A. N., 370, 373
E. L., 534
F. F., 96, 367
Hon. H. A., 527
J., 402
J. A., 374
J. F., 788
J. L., 113
R., 170
Bruchési, E., 518
J., 518
Mgr. P., 513
Brück, H., 43
Bruckshaw, J. McG., 170
Bruford, W. H., 369
Brümmer, N. J., 688
Brumwell, J., 90
Brundret, J. C., 237
Bruneau, A. S., 488
T., 520
Brunel, J., 513
Bruning, H., 265
Brunner, E., 389
Brunt, D., 170, 320
H. D., 493
Brunton, C. E., 114
J. N., 523
Brutzkus, B., 814
Bryan, A. M., 385, 394
C. W. G., 212
W. H., 606
W. W., 605
Bryan-Brown, A. N., 247, 268
Bryant, D. M., 184
L. R., 561
Bryce, J. C., 383
Bryden, Rev. W. W., 561
W., 599
Bryson, J. N., 258, 264
Bu, Hla, 809
Sir M., 807
Buber, M., 815
Buch, M. A., 735
Buchan, G. F., 204
H. A., 383
Buchanan, A. L., 618
C., 383
D., 460, 461
F. M., 20, 21
G. V., 599
J., 561
M. A., 552
R. O., 141
W. J., 393
Buck, F. E., 462
M., 544
Sir P. C., 226
Buckingham, F., 232
Buckland, W. W., 51, 55
Buckley, A. S., 230
G. H., 342
H. E., 231
J. J. C., 214
J. P., 237
Buckmaster, G. A., 41
H. M. A., 244
Budd, F. E., 174
Budden, E. S., 289
L. B., 110
Buddin, W., 291
Buer, M. C., 289
Buerger, N. W., 534
Buhagiar, W., 800
Builder, E., 626
Buist, J. J., 331
L., 391
Bujila, Mrs., 544
Bulkeley-Evans, W. A., 484
Bull, F. B., 214
H. M., 710
H. O., 88
P. C., 167
Bullard, E. C., 29
Bulleid, C. H., 340, 341
Bullen, K. E., 642
Buller, E. A., 122
Bullerwell, J. W., 94
Bullied, A., 215
Bullock, K., 236
T. W. I., 50
W. Ll., 233
Bullough, G., 296
W. S., 99
Bulman, O. M. B., 47
Bulmer, E., 24, 25
Bulyea, H. E., 454
Bumpus, E. D., 290
Buning, T. J., 681

Bunting, T. G., 493
Burbidge, G. A., 468, 470
N., 626
P. W., 642
Burbury, S. C., 623
Burch, C. R., 32
E. G., 31
Burchell, C. J., 467
F. B., 673
Burchnall, J. L., 82, 84
Burcroft, Sir J., 94
Burdon, E. J., 217
H. J., 555
R. S., 588
Bureau, A., 479
Burfield, S. T., 114, 120
Burger, F. J., 658
Burges, N. A., 55
Burgess, A. H., 185
C. S., 449
H. C., 490
J. F., 489
N., 33
W. L., 400, 401
Burgett, Rt. Rev. A. E., 454
Burhop, E. H. S., 598
Burk, J. D., 552
Burke, C. E., 500
E. T., 214, 237
T. V., 484
Rev. V., 560
Burkhardt, G. N., 230, 242
Burkill, J. C., 48, 58
Burkitt, A. N. St. G. H., 613, 621
M. C., 43
Burleigh, Rev. J. H. S., 368
Burlend, T. H., 322
Burma, Gov. of, 807
Burmeister, R., 40
Burn, A., 623
J. H., 254, 258
Burnaby, Rev. H. 45, 55
J., 61
Burnet, A. M., 232
W., 298
Burnett, D, 678
J., 397
P., 488
W. F., 390
Burney, M. E., 785
Burnham, R. E., 162
Burns, B. H., 212
C. W., 507
D., 90
G. R., 468
J. W., 116
J. W., Canada, 572
M., 369
M. M., 646
P. L., 409
W., 359
Burr, E. G., 488
P. D., 363
R. C., 536
S., 99
Burrell, G. J., 639
L. S. T., 205
W. G., 393
Burridge, A. A., 501
Burridge, W., 757
Burrill, H. R., 97
Burrow, J. le F. C., 100
S. G., 735
T., 188
Burrowes, Rev. A. B., 37
Burrows, A., 203
A. L., 810
G. J., 614
H. R., 41, 672
Burstall, A. F., 597, 602
Burston, S. R., 589
Burt, A. L., 511
C., 144, 181
D. R. R., 821
Rev. H. C., 457
J. R., 635
M. C., 689
Burt-Gerrans, J. T., 548
Burton, A., 807
C. G., 19
E. F., 553
E. L., 81
H., 596, 598
H., Ph.D., 96
J. A G, 388
R W. B., 264
Burtt Davy, J., 249
Bury, C. R., 311
F. W., 174
J. P T., 47, 54
Burzle, A., 504
Busbridge, I. W., 271
Busby, E. D., 574
O. M., 327
Bush, G. B., 35
S. F., 673
Bushell, W. C., 491
Bushnell, G. H., 397
Busteed, J., 428
Buston, H. W., 166
Busuttil, R., 800
Butani, M. B., 737
Butchart, H. J., 357
Butcher, E. E., 32
Butler, A. A., 363
B. E., 591
C. V., 271, 282
E. C., 212
E. M., 232
H. B., 53, 241
H. E., 140
J. A. P, 605
J. A. V, 367
J. B., 425
J. F., 765
J. R. M., 47, 61
K. T. B., 48, 63
Sir M. S. D., 58
O. I, 115
R. D'O., 257
R. F., 271
R M., 423
W. B., 413
Butlin, R. T., 190
S. J., 614
Butt, A., 714
A. H., 791
J. E., 191
Butterfield, H., 47, 58
Butterfield, H. C., 78
Butters, P. P., 343
Butterworth, E. C., 236
Buxton, G., 527, 528
J. B., 228
J. L. D., 215, 220
N. St. J. G. D, 212
P. A., 204, 214
Buzzard, Sir E. F., 254, 259
Bye, W. A., 617
Byers, J. A., 385
J. R., 489
W., 461
Byett, J. D., 37
Bynoe, E. T., 493
Byrd, E. C., 237
K. F., 672
Byrne, G. T., 803
Bywater, T. L., 99

CADE, S., 212
Cadham, F. T., 506
Cadigan, J. J., 367
Cadoux, C. J., 321
Caesar, L, 561
Caffrey, M., 425
Cain, B. N., 446
Cair, S. H., 36
Cairncross, A. K., 385, 389
Cairns, E. S. A., 406
H, 407
H. W. B., 254, 258
Caius, J. F., 736
Calder, J., 453
J. W., 646
W. M., 367, 377
Caldera, R., 823
Calderwood, N. I., 22
Caldwell, A. F., 829
J., 335
J., Scot., 394
M. C., 97
P., 390
P. S., 394
S., 247
Cale-Matthews, G. F., 25
Call, F. O., 457
Callaghan, Rev. J., 429
Callan, E. McC., 835
Callil, F. A. L., 597
Calthrop, J. E., 175
M. G., 158
Calvert, G. G., 639
N. G., 115
Cam, H. M., 47
Cameron, Rev. A, 744
A., 358
A. E., 371
A. E., Canada, xxv, xxviii
A. T., 503
C. R., 363
Rev. D, 368, 369
Sir D., 834
D., B.Sc., 454
D., 306
D. A, 544
D. E., 449
D. H., 174

Cameron, D. J., 19, 27
E. H., 374
E. L., 111
E. R, 386
G. C., 558
G. M., 633
G. R., 210
H. C, 203, 205
J., xxv
J. C., 533
J. D. S., 370, 374
J. F., 55
J. R., 372
J. W. McB., 493
M., 542
M. A., 560
R. G., 626
S. J., 387
T. W. M, 487, 493
W. H. B., 306
Camm, W. C, 22
Cammaerts, E., 179
Campagna, E, 476
Campagnac, E. T., 124
Campbell, A., 51
A., S.A., 696
A. A., 557
A. C. P., 372
A. D., 490
A. E., 644, 645
A. H., 257
A. H., LL.M., 22
A. H., Ph.D., 30
A. L., 588
A. N., 503
A. Y., 111
C., 230
C. A., 321, 384
C. D., 111
D., 361, 363
D. G., 489, 490
D. J., 367
E. F, 616
Mrs. E. M., 362
F. J. H., 574, 575
H. G., 401
I. E, 289
I. G. M., 345
J. G. D., 468
J M, 541
J. M. H., 205
J. T., 644
J W., 450
K. I, 600
K. W. D., 290
L. M. R., 88, 89
Sir M., 349
N., 367
P. G. C., 533
R., 369
R. B., 374
S., 71
S G., 45, 53
T. D., 590
W., 657
W. A., 388
W. A., M.D., 535
W. C., 505
W. E., 507
W. G., 401, 402
Campbell, W. R., 557
Campion, H., 235
Camps, W. A, 45, 58
Canada, Gov.-Gen. of, 484, 497
Candy, A. M F., 638
Canfield, A. W., 557
Cann, R. J., 205
Cannell, J. S., 237
Cannon, H. G., 235
W., 476
Canny, A. J., 618
Cano, J., 552
Cant, M., 225
R. G., 399
Canterbury, Archbp. of, 474
Cantillon, E. V., 430
Cantin, S., 478
Cantley, J. D., 233
Cantor, M. M., 449
Caomhánac, S, 429
Caoutte, J., 480
Cape Colony, Gov.-Gen. of, 657
Capell, Rev. A., 188
Caplette, D., 529
Capon, N. B., 115, 116, 117
Cappell, D. F., 401
Capper, P. L., 144
Capps, F. C. W., 205
Capstick, E., 290, 291
Captain, K. S., 772
Cardwell, D., 239
Carey, C. W., 194
J. R., 153
Carine, W., 693
Cariou, Mlle, 318
Carleton, H. H., 34
H. M., 252, 264
M., 144
Mrs., 247
Carlill, H., 205
Carling, E. R., 212
Carlisle, J. O., 560
Carlton, H. J., 399
Carlyle, E. I., 261
Carmalt-Jones, D. W., 634, 635
Carman, P. C., 658
Carmichael, H., 49, 60
R., 101
W. A, 370
Carne, H. R., 615
Carney, M. J., 468
Caron, Rev. A., 527, 528, 529, 530
Rev. D., 527
M., 515
S., 480
Rev. V., 529
W., 478
Carou, J., 476
Carpenter, G. D. H., 253, 261
Sir H. C. H., 169
Rev. H. J., 255, 268
Janet, 27
K. E., 114
Very Rev. S. C., 336
W. G., 454
Carr, C. T., 137
Carr, C. T., M.A., 399
E. H., 313, 315, 344
F. H., 145
Rev. H., 553
Carr-Saunders, A. M., 179, 180
Carré, M. H., 32
Carrick, R., 99
Carritt, E. F., 252, 267
Carroll, D., 627
J., 425
J. A., 359
Carrothers, W. A., 464
Carruthers, C. C., 572, 573
C. H., 485
Carse, A., 226
G. A, 370
Carslaw, H. S., 55
J, 391
Carson, O. A., 534
Carswell, J. I., 368
W. E., 555
W. E., M.B., 635
Cartan, E., 75
Carter, A. C., 288
A. V. H., 657
C. L., 633
C. W., 248, 263, 265
E., 53
G. S., 50, 54
E. B, 78
N., 613
P. T., 394
P. W., 311
S. R., 20
Cartier, C., 514
P., 514
Cartwright, E. M., 544
E. S., 283
F. F., 155
M. L., 48, 63
Mrs., 96
Carty, Rev. P., 765
Carver, H. M. S., 555
Caruana, V., 800
Cary, M, 142, 192, 193
Case, I. M., 382
Casey, Rev. G., 804
Cashmore, W. H., 255
Casimir, H. B. G., 75
Caspareuthus, A. V., 660
Casperz, U. D. R., 820
Cassady, E. E., 401
Cassel, D., 698
Cassidy, Sir M. A., 206
Cassie, W. F., 145
Cassim, K. S. A., 808
Casson, L. F., 832
R., 346, 348
S., 248, 263, 338, 380
Castlehow, S., 605
Castonguay, Rev. J., 527, 528
L., 478
Caswell, J. S., 327
Catania, Most Rev. L., 801
Catcheside, D. G., 44
Cates, H. A., 547
Cathcart, E. P., 385
Caton, E. E., 103
Caton-Thompson, G., 241

Cattermole, J., 192
Catterson-Smith, J. K., 151, 154
Cattle, M., 271
Cattley, R., 101
R. E. D., 465, 526
Caunt, G. W., 94
Caumartin, P., 513
Caustin, H. E., 282
Cavanagh, B., 604
W. D., 559
Cave, H. M., 534
Rev. S., 199
Cave-Browne-Cave, T. R., 346
Cavenagh, C. M., 447
F. A., 151
Cavers, D. L., 658
J. R., 505
Cawley, G. M., 168
Cawthorne, T., 205
Cays, F. A., 535
Cayzer, A., 605
Cazamian, L., 286
Cecil, Viscount of Chelwood, 19, 286
Lord E., 264
Central Provinces, Gov. of, 776
Cernuda, L., 75
Ceylon, Gov. of, 820, 822
Chacko, C. J., 788
Chadwick, H. M., 43, 54
J., 113, 137, 156
M., 239
Chagnon, G., 513
Chak, J. N., 760
Chakko, K. C., 767
S., 759
Chakrabarti, A. C., 742, 743
S., 742
Chakravarti, D. C., 743
D. N., 777
K., 743, 745
K. C., 795
Chakravarty, A. C, 258
Chakravorti, J. C., 740
Chalk, L., 249, 267
J. T., 168
Chalklin, F. C., 143
K. M., 81
Challen, K. M, 37
Challenger, F., 96
Challinor, J., 312
Chalmers, C. H., 99
J., 91
J. A., 82
Chamberlain, D, 102
E. N., 116
G. L., 341
R., 407
Chambers, E. G., 49
E. R., 34
F. P., 484
J. D., 342
R. 538
R. W., 141
Champ, A. I., 83
Champernowne, D. G., 45, 50, 57
Champion, F. C., 152
Champlin, M., 543
Chance, Rev. T. W., 308
Chand, A., 791
B., 755
F., 789
G., 730
Gian, 791
Gyan, 794
H., 795
K., 783
L. D., 710
L. M., 790
M, 790
Tara, 718
Tek, 731
Chanda, A. K., 742, 745
S. M., 751
Chandavarkar, V. N., 734
Chandhuri, B. K., 743
Chandler, F. G., 206
Chandorker, D. V., 777
Chandra, B., 784
H., 755
V., 788
Chandrapandey, K., 759
Chandrasekharan, C. V., 797
Chandy, M., 760
P. J., 778
Chanmugam, 822
Channell, G. D., 43
Channon, H. J., 110
Chant, S. N. F., 554
Chapekar, S. N., 737
Chapman, A. E., 20
A. W., 295, 304
D., 196
D. L., 261
E. N., 635
F. W., 153
H., 214
H., Otago, 633
R. W., 262
S, 169
V. J., 44, 56
W. D., 229
W. M. M., 370
Chappell, G. M., 198
Chapple, C. R., 311
H., 208
H. M., 169
Chaput, R., 337
R. P. Chs., 516
Charan, R., 731
Charbonneau, J.-N, 519
Chard, F. de la C, 33
Chari, P. N., 766
Charland, Rev. R.-M, 528
Charles, J. A., 90
Charlesworth, E. H., 504
J., 87
J., M.Sc., 226
J. K., 406, 411
M. P., 45, 60
Charley, V. L. S., 36
Charlton, H. B., 232, 245
Charnock, F. S., 661
Charpentier, J. L., 517
Charron, E. H., 517
Y., 515
Charteris, A. H., 617
F. J., 401, 402, 403
Chartier, Canon E., 513, 514
Charvet, P. E., 46, 54
Chase, Rev. G. A., 45, 63
W. H., 498
Chater, E. H., 311
Chatfield, H. S., 223
Chatgidakis, C B., 697
Chattaway, F. D., 265
M. M., 249
Chatterjee, C., 777
G. C., 778
K. K., 742
M., 743
M. N., 741
P. B., 744
R., 744
Chatterji, A. C., 743
A. C., D.Sc., 758
B. C., 731
B. N., 760
C. D., 758
G. C., 790
G. S., 718
K., 777
K. C., 718
K. P., 717
N. C., 795
N. L., 758
S. C., 710
S. K., 741
Chattoraj, D., 743
Chaturvedi, S. P., 779
Chaudhri, K. L., 762
N. N., 756
R. M., 714
R. M., M.Sc., 789
Chaudhuri, C. C. R., 795
H., 787
R. P., 809
S. C., 743
S. S, 794
Chaudhury, D. D., 745
J. N., 751
R. S., 731
Chaundy, T. W., 251, 259, 269
Chauviré, R., 424
Chavasse, Rev. C. M., 269
F. B., 117
Chawla, S., 790
Chaytor, Rev. H. J., 59
Cheema, G. S., 737
Cheesman, E E., 834
Cheetham, Rev. F. P., 238
Chelappah, S. F., 823
Chelladuri, J. E., 765
Chelvaayyangar, H. N., 768
Cheney, C. R., 249, 262
F. W. A., 78
Chennakesavaayyengar, H., 764
Chenoy, J. B., 767
Cherian, P. V., 767
Cherry, N., 658
T. M., 596
Cheshire, G. A., 241
G. C., 231, 253, 255, 260
Chesney, K., 250, 271

Chester, C. E., 346
D. N., 231
Chesters, C. G. C., 19
Chetti, C. D. S., 766
Chettiyar, Sir S. R. M. A , 726
Chetwode, Sir P., 107
Chetwood, T., 306
Chevalier, P. P. G., 358
Chew, H. M., 175
Chhabra, B. D., 789
Chiasson, L. P., 539
Chibnall, A. C., 166
Chick, H., 210
Chickoteau, M. H., 323
Chidambaranathachettiyar, A., 727
Chidanandam, M., 722
Childe, A. E., 489
V. G., 366, 380
W. R., 97
Childs, C. B., 370
E. C , 31
E. C., Ph.D., 51
J. R. N., 574
M. C., 492
Rev. S , 457
W. M., 289
Chilton, O. H., 168
Chilver, G. E. F , 265
Chinchalkar, S W., 779
Chinnaswamayyar, K., 765
Chintamani, T. R., 763
Chipman, R. A , 447
W. F., 488
Chirnside, J., 240
Chisholm, A. E., 400
A. M., 641
A. R., 597
C., 231, 235, 237
C. E., 446
D., 383
J., 299, 300
J. A., 358, 363
Rev. J. C., 539
J. S., 376
Chit, Daw, 810
Chitty, H., 35
L., 168
Choksi, R. D., 736
Cholette, A. M., 517
Chong, L. P , 829
T. S , 830
Chopra, R. N., 743
R. P., 755
R. S., 787
Choquette, F., 479
Chordia, S. S., 777
S. S. L., 778
Chorley, R. S. T., 127, 153, 223
Choudhuri, M. L., 777
Chowdhry, B. K., 794
Chowdhury, H., 810
H. P., 758
J. K., 750
R. C., 717
Chowla, S., 788]
Chown, G., 506
H. B., 506
Chrimes, S. B., 384
Christeller, C., 659
Christelow, A., 265
Christie, C. V., 487
G. H., 81
G. I., 561
J. F., 387
R. V., 206
Christol, F. H., 187, 189
Chrystal, E. M., 64
R N., 249
Chubb, C. S , 324
G. C., 205
L. J., 141
Chudleigh, G A., 469
Chunekar, G. S., 730
Church, A. E. R , 225
Churchill, E. A. H., 776
Rt. Hon. W. S., 30
Churchward, J. G., 622
Chute, W. L., 559
Cilento, Sir R W., 607
Cilliè, G. G., 687, 700
Cilliers, A. C., 688
Circé, A., 518
Citrine, Sir W., 75
Clancy, W. J., 299
Clandinin, D. R., 451
Clapham, A. R , 248
H. D., 215
J. H., 57
J. R., 37
Clapton, G. T., 296
Clare, E , 505
Mother F., 575
Claremont, L. E., 215
Clark, A. D., 700
A. F. B., 461
A. J., 372
A. L., 533, 537
A. Landale, 379
A. M., 368
A. M., M B., 389
C. C., 562
C. G., 76
C. H. D., 96
Sir E., 623
E. A., 536
E. V., 588
Rev. F H. H., 58
F. W., 504
G. A., 297, 302
G. N., 252, 257
H., 672
J., 300
J. G., 401
J. G. D., 43
J. J., 115
J. M., 384
K. A., 452
K. G. T., 97
L. E., 607
L. V. Woodhouse, 22
R. H., 459
R. S., 358
R. S , K.C., 562
S. D., 547
T. H., 486
W. A., 85
W. E. le G., 201, 247, 261
W. G., 373
Clark-Kennedy, A. E., 54, 206, 217
Clarke, A. Fielding, 158
D., 486
D. A., 394
Mrs. D. E. M., 271
E. A., 648, 649
E. de C., 627
F., 158, 175
G., 608
G. H., 533
G. H. F., 591
G. R., 255, 264
H. M., 151
H. O., 237
J. J., 111
J. R., 297
J. P., 123
L., 346
L C. G., 62, 72
M. A., 627
M. L., 57
R., 432
R. C., 34
Tom, 152
W. S., 231
Clarkson, F. A., 559
R. D., 373
Classe, A., 384
Claughton, H., 125
Clausen, Rev. F. B., 575
Clawson, W. H., 549
Claxton, B., 488
Clayden, A. W., 336
Claydon, E. W., 103
Claye, A. M., 100
H., 42
Clayton, A. E., 240
C. H. J., 616
E. B., 211
F. W., 57
Rev. J. F., 37
T. H , 239
Cleary, T. P., 644
Clegg, F. R., 574
H. W., 237
Cleland, C. A., 536
J. B., 589, 594
Clement, F. M., 462
Clements, C., 313
R. G. H., 167
Clemo, G. R., 85
Clerkin, P., 407
Clews, C. J. B., 175
Clibborn, D. H., 265
Cliche, E., 480
Clifford, W. M., 198
Clift, S. G., 340
Climie, H., 400
Climo, C. B. H., 470
Cloake, P., 24
Cloete, J. H. L., 684
Clogg, Rev. F. B., 199
Clokie, H. McD., 505
Close, H. M., 754
W. J. W., 590
Closs, A. M., 32
H. P., 326
Clough, G. W., 224
Clouston, D., 362

Cloutier, L., 477
Rev. G., 529
Clow, A., 358
Cluver, E. H , 697
Clyde, D., 757
W. M'C., 398
Coady, Rev. M. M., 540
Coase, R. H., 180
Coate, M., 251, 270
Coates, A., 118
A. E., 595
J. E., 327
Coatsworth, H. R., 552
Cobb, A. J., 294
J. H., 299
J. W., 107
Cobban, A., 142
Cobbold, C., 219
Coblans, H., 672, 673
Coburn, G., 698
K. H., 550
Cochran, A. B., 644
Cochrane, C., 385
C. N., 551
G. R., 505
W., 170
W. A., 372
Cock, A. A., 345, 348
Cockayne, E. A., 206
Cockburn, A., 369
J., 416
J. R., 555
Cockcroft, J. D., 49, 60
Cocker, J. P., 102
R., 238
W., 335
W. H., 641
Cockin, C. M., 755
Cocks, Rev. H. F. L., 368
Cockshutt, Hon. H., 572
Codrington, A. H., 591
K. de B., 139, 187, 286
Cody, Hon. Rev. H. J., 547
Coe, V. F., 554
W. E., 215
Coertze, L. I., 683
P. J., 687
Coetzee, A. J., 692
J. C., 675, 676
P. C., 680
Coffey, D. J., 423, xxv
P., 428
Rev. P., 421
Coffin, C. C., 465
Coghill, E. H., 599
N. H. K. A., 260, 261
Cohen, G., 40, 123, 246, 305
H., 90
H., M D., 116
R. L., 255
S. M., 657, 662
Cohn, E. J., 178
E. S., 258
Cohn-Wiener, E., 749
Cohoon, J. W., 522
Colborne, D. C., 87
Coldwell, W. H., 211
Cole, A. C., 550
E. B., 115
E. R. F., 110
Cole, F. J., 290
G. D. H , 249, 267
L. W., 184
P. R., 614
S. W., 52
Colefax, A. N., 616
Coleman, F., 214
H. T. J., 461
Rev. N. D., 82, 83
R. A., 456
R. L., 544
Coles, J. D. W., 684
Colgrave, B., 81
Collas, J. P., 384
Colledge, E., 112
Colles, H. C., 226
W. M., 203
Collett, R. R., 678
Collie, C. H., 259
J. N., 140
Collier, D. G., 324
F., 231, 242
H. E., 23
H. O. J., 234
Collieu, E. G., 258
Collin, L. D., 508
W. E., 573
Collinge, J. S. H., 118
Collingwood, A., 542
R. G., 252, 262
Collins, C. W., 638
D. H., 101
E. A., 447
F. M., 723
H. F., 231
H. J., 144
Rev. L. J., 264
M., 370
R. W., 450
W., 168
Collinson, H., 101, 104
P. L., 341
W. E., 112
Collip, J. B., 484
Colman, J. S., 297
Colmar, G. C., 363
Colomb, R., 22
Colombo, J., 800
Colquhoun, G. R. E., 212
T. T., 590
Colson, B., 230
Colvin, J., 96
Colwell, W. G., 468
Combe, T. G. S., 46
Comber, N. M., 99
Combridge, J. T., 152
Comfort, C., 548
Common, J. S., 491
R. H., 407
Compton, A., 156
R. H., 658
Comrie, A., 376
J. D., 372, 374
L., 404
Comtois, A., 517
Conacher, W. M., 533
Conboy, J. F., 558
Concannon, Mrs., 421
Condliffe, J. B., 179
Cone, W. V., 489, 490
Congdon, P. M., 90
Conklin, R. L., 492, 493
Conlon, J., 428
Conn, G. K. T., 297
H. G., 533
L. C., 452
Connaught, Duke of, 345, 667
Prince A of, 700
Connell, A. H., 297
J. S. M., 19
W. F., 535
W. T., 535
Connolly, W. E., 533
Connon, M., 357
Conradie, D. J., 688
E. J., 669
Conroy, R., 23
T. A., 428
Constable, W. G., 40
Constançon, C., 694
Contant, J., 518
Conway, A. W., 423, 425
E. J., 426
G., 231
V. M., 196
Conybeare, J. J., 206
Coogan, Rev. F. D., 561
Cook, A. B., 59
A. H., 167
A. J., 450
A. L., 550
F., 208
G., 386
G. G., 345
H. H., 291
H. L., 634
J. B., 366
J. M., 367
J. W., 203, 219
L. G., 117
R. M., 231
S. A., 56
T. W., 447
W. R. Ivimey, 322
Cooke, A. C., 461
A. M., 254
G., 822
G. E., 297
H. B. S., 693
J. C., 832
R. G., 177, 225
R. G., Aust., 587
R. H., 523
R. S., 186
R. V., 35
W. T., 587
Cookson, I. C., 595
Coomber, S. E., 169
Coombs, F. E., 560
Coope, R., 110, 116
Cooper, B., 51, 156
C. G., 641
D. Le B., 466
E. L., 600
E. R., 91
E. R. A., 229
I., 486
J. I., 486
K. E., 35
M. A., 694

Cooper, R., 407
W. L., 30
W. M., 233
Coopland, G. W., 112
Cooray, G. H., 823
Coote, J. A., 488
P., 483
Cope, F. W., 835
V. Z., 212
Copeland, A. J. A., 390
Copland, D. B., 596, 602
Copp, W. P., 466
Coppell, E. G., 599
Coppleson, V. M., 618
Copson, E. T., 399, 403
Corbett, E. A., 456
Sir G. E , 287
P. E., 488
R. S., 212
Corcoran, Rev. T., 423
Cordiner, T. S., 393
Cordingley, R. A., 229
Corera, M. L., 823
Corfiato, H. O., 145
Corfield, C., 33
Cork, D. J., 102
Corkery, D., 428
Corkey, R., 18
Cormac, H. D., 236
Cormack, H. S., 809
J. M. R , 288
P., 424
Cornell, J. G., 588, 604
Cornellier, Rev. L. P., 527, 528, 529
Corney, E. R., 587
Cornford, F. M., 49, 61
Cornish, E. A., 591, 594
G. A., 560
R. J., 240
W. E., 452
Correa-Afonso, F., 735
Corrigan, C. A., 559
C. E., 507
T. H., 413
Corry, J. A., 535
Corston, J. B., 541, 542
J. R., 468
Cortis, G., 801
Cosens, C. R. G., 51, 63
G. G., 550
Cosgrave, Rev. F. H., 569
G. P., 554
Cossar, J., 399
Costello, D. P., 335
Costigan, M. M., 575
Costin, W. C., 266
Coté, Rev. A., 528
T., 517
Cote, F. J., 562
Cott, H. B., 50
Cotter, J. R., 413
Cotton, C. A., 644
F. S., 615
H., 340
L. A., 615
T. F., xxv, xxviii
Cottrell, A. J., 635
G. E., 37
Coughlin, Rev. H., 553
Couillard, E., 480
Coull, J. R., 363
Coulson, C. A., 399
J. G., 493
J. M., 167
Coulston, E. M., 447
Coult, D. A., 140
Coultas, H. W., 20
Coulthard, W. B., 460
Coulton, G. G., 59
Counsell, E. M., 485
Coupland, R., 250, 257
Court, W. H. B , 21
Courtauld, S., 160
Cousin, D. R., 384
Cousineau, Hon. P., 515
R., 528, 529
Cousins, D., 19
Cousland, Rev. K. H., 561, 570
Coustenoble, H., 143
Coutts, J. A., 415
J. R. H., 673
Coutu, L., 516
Couture, E., 529
Couzens, J. V., 345
Covell, A. G., 102
Coveney, D., 40, 328
Coventry, A , 548
C. C., 678
Coverlid, D. R., 597
Covernton, A. B., 191
Covert, F. M., 467
G. L., 469
Cowan, G. S., 467
J., 236
J. A., 394
Mrs., 88
S. Hunter, 368
S. T., 237
W. A., 587, 593
Coward, K. H., 202
N. B., 467, 468
Cowell, S. J., 203
Cowen, S. O., 600
W., 239
Cowie, A., 370
Mrs. D. G., 662
R. H., 357
Cowley, J. D., 142
Cowling, G. H., 597, 603
T., 559
T. G., 233, 404
Cox, A. D. M., 257
A. H., 323
C., 20
C. W. M., 263
E. G., 20
H. H., 261
H. R., 166
L. B., 600
R. G., 55
R. R. S., 297
Coxeter, H. S. M., 552
Coxon, A H., 367
Coyajee, N. H., 735
Crackston, J. E., 324
Craddock, F. W., 635
Cragg, J. B., 318
Craib, W. H., 696
Craig, C., 486, 487
J , 360
J. D., 296, 302
J. F., 114
M., 198
R., 369
R. C., 366
W. P., 454
Craig Houston, G. A., 196
Craigie, E. H., 548
J., 559
Sir W., 286
Cramer, S. L., 824
Cramp, W., 20
Crampton, E. W., 492
M. H. St. Cl., 588
Crane, F. R., 223, 233, 242
M. B., 225
V. W., 148
W., 116
Cranfield, R. V., 370
Crang, A., 36
Cranna, D. D., 229
Cranston, J. A., 393
Craster, H. H. E., 247, 257
J. E. E , 76
Craven, A. D., 601
M. B., 239
R., 362
Crawford, A. B., 393
A. M., 387
C. M., 536
D., 696
F. W., 503
H., 607
H. A., 392
J. G , 614
J. K , 102
M. F., 553
R. M., 597
R. M. C , 387
Crawford and Balcarres, Earl of, 229
Crawfurd, Sir E., 156
Crawley, C. W., 47, 62
L. W. A., 641
Creed, E. ff., 210
Rev. J. M., 45, 59
R. M., 311
R. S., 252, 263
Creighton, D. G., 551
E. M., 500
J. H., 460
Cremer, H. W., 150
Cremona, F., 800
Crépault, P. E., 479
P.-Z., 517
Crerar, S. R., 556
Crespi, A., 177
Creswick, H. R., 53
Creswick-Jackson, N. E., 616
Crew, F. A. E., 371, 733
Crewdson, M. S., 193
Crewe, Marquess of, 191, 295
Crichton, E. C., 661
M. I., 290
Cripps, Hon. A. H. S., 265
Critchley, M., 206, 208
Critien, E. A., 801
Crocker, B. F., 548

Crocker, J. C., 225
J. H., 573
R. L., 591
Crocombe, F. R., 547
Croft, J. S., 393
Crofts, D , 198
J. E. V., 31
Croll, J. McA., 298
Crombie, D. W., 574
Cronje, G., 682
Cronkite, F. C., 542
Cronne, H. A., 152
Crook, E. A., 212, 216
Crooker, A. M., 462
Crookes, S. I., 641
Crooks, H. E., 98, 107
Croom, J. H., 372
Cropper, C. F. J., 810
Crosby, E. H., 357
H. S., 469
Rev. K. H., 188
Crosland, Mrs., 196
Cross, E. J., 103
Rev. F. L., 255
Rev. L. B., 261
R. C., 261
Crossland, J., 103
Crossley, K. M., 554
T. L., 555
Crosthwaite, E., 700
Crouch, S. S , 558
Crow, A. D., 264
Crowden, G. P., 211
Crowdy, S. H., 834
Crowe, P. M., 236
P. R., 384
S. E , 271
Crowell, I. H., 493
Crowley, T. A., 409
Crowther, D., 658
E. M., 224
J. A., 289
Cruickshank, A., 168
A., Scot., 358
E. W. H., 359
F. D., 623
J., 360
J. N., 387
J. S. R , 360
M. M., 768
O. R , 562
Cruickshanks, G. S., 393
Crumb, J. A., 460
Crump, M. M., 225
P. E., 232, 242
Cruse, H. P., 687
Cruttwell, C. R. M. F., 260
M. J. P., 807
Crymble, P. T., 408
Cuerden, F. J., 777
Culey, A., 622
Cull, E. C., 20
J. E. L., 639
Cullen, C. H., 405
W., xxvi, xxviii, xxix
Cullerne, A. C., 112
Cullinan, E. R., 206
Cullinane, C., 429
N. M., 322
Cullis, M. A., 191
Cullis, W. C., 211
Culliton, J., 485, 488
Cullum, Mrs , 378
Cullwick, E. G., 452
Culpin, C , 50
M., 211
Cumberbatch, E. P., 211
Cumberland, K. R., 638
Cumming, A. M., 335
G. A., 398, 399
W. M., 393
Cummings, R. P., 606
Cummins, W. H. H., 606
Cunliffe, N., 255
W., 230
Cunningham, Rev. B. K., 70
E., 48, 59
E. J., 527
E. M., 420
J. G., 559
K., 318
K. S., 596
L., 116
W. R., 382
Cunnington, W. A., 203
Cunnison, J., 385
Curle, J. N. O , 265
Curmi, V. M., 801
Curran, H. W., 532
Currelly, C. T., 538, 547
Currey, C. H., 617
Currie, A. N., 401
A. W., 460, 532, 533
B. W., 543
C., 487
D. W., 100
E. D., 384
J. F., 319
J. R., 382, 388
Curry, C., 98
W. A., 469
Cursham, C., 341
Curtis, C. A , 534
E., 414
F. F. C., 110
G. F., 467
L. G., 257
S. J., 96, 98
Rev. W. A., 368, 375, 377
W. E., 87
Curzon-Siggers, W. A., 634
Cuschieri, Rev. A., 800
Cushing, H. B., 498
Cuthbert, J. A., 404
R. A., 639
Cuthbertson, A. C., 522
D. P., 385
J. W., 233
Cutler, D. W., 224
Cutting, E. M , 140
Cuttle, W. L., 55

Dabadghao, Mrs., 778
V. M., 779
Dacombe, M. R., 36
Dadachanji, B. E., 777
Dadson, T. M., 446
Dafoe, J. W., 503
E., 503
Daggett, W. L., 205
Dagneau, C., 480
Daiches, S., 227
Dainton, A. H., 97
Daisley, H. H., 53
Daji, J. A., 737
Dakin, Rev. A., 37
A. N., 267
D., 177
W. J., 616, 620
Dalal, P. A., 735
Dalaya, A. M., 791
Dalbis, L. J., 520
Daldy, D. M , 81
Dale, A. M., 250, 270
B. J., 226
E. A., 549
G., 613
Sir H. H., 211, 222, 417
J., 600
Daley, O. I. C , 599
Dall, Mrs. A., 398
Dallas, A. E. M., 341
D., 461
K. M., 623
Dalling, T., 50, 73
Dalrymple, Sir W., 692
Dalton, A. J., 486
A. O., 595
H. W., 236
J. P., 694
Daly, A. S., 201
G. J., 429
I de B., 370, 380
Dam, M. L., 750
Damle, N. G., 737
N. R., 734
Damodaran, M , 763
Dampier, Sir W. C. D., 61
Danby, A. B., 24
Rev. H., 255, 259
Dandekar, S. V., 738
Daniel, G. E., 60
J. E., 318
Rev. J. E., 307
R. J., 113
Daniell, Ven. Archdeacon, 188
P. J., 297
Daniells, R., 504, 511
Daniels, H. B., 294
J. E., 91
Daniher, E. L., 562
Danino, E. A., 332
Danis, Rev. L., 528
Dannatt, C., 174
C. W., 169
Danreuther, D. S., 257
Dar, S. N. L., 730
Darbishire, H., 270
S. B., 117
Darby, H. C., 46, 57
Darbyshire, O., 87
Dare, J. G., 98
Darisse, G., 478
Darling, A. I., 91
Darlington, C D., 225, 228
Mme., 461
R. R., 192
Darrow, K. K., 498
Dart, R. A., 692

Darvall, A. E. J., 608
Darwin, E. R. H., 597
L. J., 639
Das, B., 743
B. K., 783
H. K., 795
H. N., 809
I., 787
J. P., 771
K. P., 795
L. M., 753
P., 744
R., 754
R. S., 718
Mrs. T., 742
Das Gupta, H. L., 795
P. N., 794
S., 755
Das Neves, F. J., 252
Dasannacharya, B., 731
Dasarao, C. J., 722
Dasgupta, B., 755
B. C., 823
B. M., 742
B. N., 760
G. C., 742
J. N., 751
P., 755
S., 744
S. N., 743
S. N., M.Sc., 758
S. R., 755
S. R., M.B., 809
Dass, P. N., 759
Dastur, F. M., 708
J. F., 777, 779
Datnow, M. M., 116
Datta, G. L., 787, 789
H. K., 721
K., 789
S., 742
S., D.Sc., 743
S. K., 718
S. K., M.B., 790
Dattilo-Rubbo, S., 599
Daub, D., 56
Daunt, B. M., 176, 178
Dauth, D. J., 697
Dave, M. J., 736
T. N., 738
Davel, H. B., 683
Davenport, A., 112
A. H., 51, 61
H., 233
S. F., 755
Davey, A., 561
A. J., 317
C. M., 588
D. G., 324
Rev. F. N., 45, 54
T. H., 118
David, E., 20, 21
F. J. B., 808
Rev. F. J. T., 350
F. N., 144
I., 328
J. C., 768
M. D., 809
W. T., 102
Davidge, C. V., 268
Davids, Mrs C. A. Rhys, 187, 190
Davidson, A. C., 695
A. M., 506
C., 360
C. L., 101
G. S., 361
J., B.C., 459
J., D.Sc., 587, 590
J., M.B., 204
Jas, 355
J. N., 400
L. S. P., 365, 372
M., 368
N. G. W., 388
P. M., 328
Rev. R., 561, 570
S., 24
S. W., 89
W., 95
W. A., 400
W. M., 361
Davidtsz, M. J., 683
Davie, T. B., 41, 117
G. E., 370
Davies, A., 97
A. C., 49, 64
A. L., 409
C., 184
C., Wales, 317
C. C., 250
C. W., 224
D., 312
D. F., 804
D. G., 311
D. J., 22
Rev. D J, 308
D. M., 598
D. R. S., 223
D. T, 206
D. V., 43
D. W., 313
Elwyn, 232
E. H., 588
E. M., 324
E. S., 594
E. T., 318
E. T., Ph.D., 152
F., 295
G., Wales, 312
Glyn A., 299
Rev. G. H., 37
G. MacD., 177
G. O., 114
H., 313
H., M.A., 406
H. J., 298
H. M., 143
H. S., 46, 60
H. W., 257
H. W., L.R C.P., 211
H. W., M.B., 615
H. W., Scot., 359
I. G., 35
I. J., 332
J. G., 591
J. G., Trinidad, 834
K. J. H., 634
Lord, 311
M. W. H., 317
Davies, N., 560
O., 405
R. D., 51, 54
R. E., 673
R. M., 313
R. O., 313
R. P., 313
Rev. R. T., 269
S., 116
S. J., 151
V. C., 225
W., 169
W., M.Sc., 314
W., Melbourne, 596
W., M.R.C.S., 332
Rev. W. A., 199
W. C., 322
W. L., 291
W. T., 192
Davies-Colley, R., 212
Davis, A. G., 324
B. E. C., 196
E. D. D., 205
E. J., 142
G., 461
H., 90, 91
H., B.Sc., 211
H., U.S.A., 349
J. G., 290
L. J., 804
M. O., 320
O. C. M, 31, 34
S., 693
W., 341
W. T., 605
Davison, G., 90
H. Glen, 89
J., 337
J. A., 231
M. H. A., 88
Davson, H., 143
J., 236
Davy, N., 341
Dawbarn, M. C., 591
Dawber, H. M., 234
Dawe, C. V., 36
Dawes, B., 153, 227
H. F., 501
Dawkins, R. MacG., 250, 260
Dawson, C., 641
C. A., 487
C. M., 446
D., 350
D. J., 357
G. G., 257
H. M., 96
J. B., 635
M. J., 145
R. M., 554
W. G., 469
W. S., 618
Day, A., 453
A. A, 533
C. D. M., 791
J. F., 459
J. H., 94
J. H. O., 660
J. N. E., 140
J. P., 485
O. J., 506

Day, T , 228
W. R., 249
Dayal, K, 794
S , 754
Daymond, J. R., 115
S. D., 113
Daysh, G. H. J., 86
De, J. C., 820
M. L., 779
M. N , 743
P., 743
P. N., 794
R. L., 750
S. C., 730
S. K., 751
d'Abreu, A. L., 332
D'Alton, Very Rev. J. F., 421
D'Arcy, C. E., 617
Rev. M. C., 269
D'Ath, E. F., 634, 635
de Beaumont, V., 550
De Beer, G. R., 139
de Belin, G. A., 298
de Bruyne, N. A., 51, 62
de Burgh, D. W. G , 91, 404
De Castro, I., 340, 343
De Champ, St. E., 550
de Costa, M., 824
de Fenn, B., 297
De Guise, A., 516, 517
d'Hauteserve, L., 485
de Irizar, A., 98
de Jager, E. F. J., 660
De Kleijn, A. P. H. A., 75, 137, 148
de Klerk, Rev. W. J., 675
De Kock, G. v. d. W., 684
de Koninck, C., 478, 515
de Korostevetz, V., 338
De Lloyd, D. J., 313
De Long, W. A., 492
de Loor, B., 681
de Lorey, E., 380
De Lury, J. S., 504
D. B., 552
de Madariaga, S., 320
de Montléon, J., 478, 531
de Montmorency, G., 158
de Navarro, J. M., 43
De Navasquez, S. J., 210
D'Ombrain, G. L., 168
de Pedroso, Marques, 498
de Saram, G. S. W., 823
de Savoye, H., 451
de Sélincourt, E., 29
O., 407
de Silva, A. M., 823
C. I., 823
J., 822
de Souza, A. T. A., 820
De Souza, A., 777
A. F., 810
D. H., 206
D'Souza, Rev. J., 765
L. P., 777
V. L., 772
de Törne, B., 137
de Valera, E., 421
de Vane, W. C., 567
de Vial, J., 622
de Villiers, J. N. C , 670
De Villiers, C. G. S., 689
L C., 681
O. T., 689
W., 670
W. P., 681
de Vos, C. M., 676
P. J. G., 697
de Waal, C. T., 689
de Wesselow, O. L. V., 206
De Wet, C. J. H , 676
De Witt, C. E. A., 446, 447
N. W., 549
de Wolfe, S., 817
de Zulueta, F., 253, 257, 389
Deakin, F. W. D., 267
Dean, A., 599
A. E., 225, 227
H., 466
H. R., 42, 52, 62
N., 50
W. R , 48, 61
Deane-Jones, I., 263
Deanesly, M., 194
Deans, A., 362
Dearden, W. H., 33
R. H., 238
Dearle, R. C., 573
Dearnley, G , 208
Deas, H. T., 45, 56
Deb, S. C., 717
Debenham, F., 46, 56, 72
R. K., 25
Debono, J., 801
P. P., 801
Debye, P., 137, 148
Déchamps, J., 174
Dee, A. A., 23
P. I., 49, 61
Deer, W. A., 232
Defries, R. D , 556, 559
Degweker, B. V., 778
Deighton, Rev. H. S., 265
Dekker, G., 675
J. J., 669
Delafield, M. E., 144, 203
Delage, J. B., 513
Delahaye, J. S., 535, 536
Delaney, R., 97
Delargy, J. H., 424
Delbridge, J. S., 657
Delf, E. M., 196
Delhi, Supt. Ed. of, 708
Delorme, G., 514
L. N., 520
Delp, W. E., 194
Demers, G. E., 481
J., 515, 516
Hon. L. P., 515
U., 480
Denbigh, K. G., 345
Deneke, H. C., 271
Denham, H. G., 638
W. S., 103
Denholm Young, N., 251, 260, 262
Denison, R. B., 672
Dennell, R., 170
Denney, W. L., 574
Dennison, S. R., 231
Denniston, J. D., 250, 260
Denomy, Rev. A. J., 551
Denstedt, O. F., 484
Dent, E. J., 48, 57
F. J., 103
H., 69
Deodat, le R. P., 518, 519
Deodhar, D. B., 759
G. B., 718
Deoras, R. S., 779
Derby, Earl of, 109
Derham, E., 597
Déry, D. A., 476
Dérome, L., 515
Des Barres, F. W. W., 522
Desai, M. M., 730
P. M., 735
W. S., 808
Desborough, L. O., 641
Deschatelets, Rev. L., 529
Desclos, A., 60
Deshmukh, C. D., 779
Deshpande, B. R., 778, 779
Mrs., 778
N. M., 778, 779
P. Y., 770
S. G., 734
V. G., 778
Desmeules, R., 480
Desrivières, E., 479
Desrochers, G., 480
P. C., 478
Desrosiers, J. B., 515
Desseignet, J., 289
Dessoulevy, Rev. C. L., 188
Destroismaisons, L., 478
Désy, A., 518
Detweiler, H. K., 557
Detwiler, J. D., 572
Deva, R., 756
Devadhar, C. R., 737
Devadutt, V. E., 779
Devi, Mrs. J., 731
Devonshire, Duke of, 42, 76, 95, 107
Devy, Rev. V., 529
Dew, H. R., 618, 620
Dewar, H. A., 89
J., 397
J. B., 374
R., 289, 292
Dewey, Rev. M. B., 58
Dewrance, Sir J., 156
Dewsnup, E. R., 111
Dexter, K. M., 335
Dey, B. B., 764
H. L., 750
P. K., 710
Dhar, L., 755
N. R., 717
S. C., 778
Dharamaraj, M. G., 779
Dharap, K. N., 735
Dharma, Mrs., 731
Dharmarajah, J. V., 820
Dharmarao, G., 723
Dharmasena, C. B., 822
Dhopeshwarkar, A. D., 736
Dhruva, A. B., 730
D. A., 736

Dhyansingh, 777
Diamond, J., 51
Dible, J. H., 122, 210
Dick, A. M., 792
B. M., 373, 374
J., 298
J. C., 388
Dickason, F. G., 808
Dickens, A. G., 268
Dickie, Rev. E. P., 398
J S., 385
Dickins, B., 97
Dickinson, E. C., 790
F., 407
G , 398
H. D., 96
J., 86
J. C., 97
R. E., 141
S., 50
W. C., 179
Dickson, E. C. S., 234
F , 459
G. H., 561
J. M., 340
J. R., 834
T. W., 169
Diederichs, N., 670
Dienes, P., 177
Diethelm, O. A , 617
Digby, K. H , 804
Digeon, A., 40, 305
Digges La Touche, A. A., 101
Diggie, F. H., 234
W. S., 109
Dighe, S. K , 779
Dikshitar, V. R. R., 763
Dilling, W. J , 116
Dillon, T., 432
T. J., 198
T. W. T., 425
Dillwyn, C. L , 259
Diltz, B. C., 560
Dilworth, I., 460
Dimbleby, V , 298
Dimmitt, M. A., 759
Dimond, Rev. S. G., 199, 200
Dimont, Rev. C. T., 37
Dinaburg, B., 815
Dinan, T. J., 433
Dingemans, G. F , 677
Dingle, H , 170
Dingli, A., xxvi, xxix
Dingwall, J. M. M , 323
Dinsdale, D. H., 88
Dion, R. P. A., 478
Dionne, L.-R., 517
Dippenaar, B. J., 689
Dirac, P. A. M., 48, 60
Disney, M. E , 34
Ditchburn, R. W., 412, 415
Diverres, P., 327
Diwan, G. S., 736
Dix, Rev. D. S., 544
E., 192
V. W., 212
Dixey, R. N., 255
Dixit, D. L., 737
K. R., 734
Y. V , 735
Dixon, A. L , 251, 262
C. G , 358
H. H., 413
J. T. H., 86
K. C., 57
L. B., 461
M., 44
W. M., 417
Dobb, M. H., 45
Dobbie, J. C., 43
Dobbs, C. G , 150
Dobby, E. H. G , 832
Dobrée, B., 97
Dobson, B. H., 787
G. M. B , 252, 263
J. F., 30, 31
J. W., 469
Mrs., 29
P. S., 575
Dodd, A. H., 318
C., 143
Rev C. H., 45, 56
F. T. Ll., 406
G. J., 487
S., 208
Dodds, E. C., 202
E. R , 248, 259
G. B., 367
K. S., 834
M , 81
R B., 635
Dodwell, H. H., 187
Doggart, J. H., 209
Dohan, J. S., 492
Doherty, E , 573
W. D., 212
Doi, K., 75
Doja, M. Q . 709
Doke, C. M., 692
Dolan, M. A., 533
Dolbec, R., 481
Dold, G. W. F., 223
Dollar, A. T. J., 55
Dolley, L. G. F., 150
Dolman, C. E., 459, 461
Dolschansky, L , 814
Dolton, D., 638
Dominic, Sister M., 745
Dominica, Sister M., 550
Domitille, Rev. Sr., 529
Don, C. S. D., 238
J., 700
P. A., 657
Donald, C., 212
C. M., 591
D. W. A., 366
G , 360, 362
H. P., 371
M. B., 140
M. M., 687
Donaldson, M., 208
R. E. D , 81, 83
Donegan, J. F., 433
Dongerkerry, S. R., 734
Donovan, E., 428
H. C., 617
P. F., 424
T., 430
Doodson, A. T., 113, 119
Doraiswami, M. A., 782
Doran, W , 110, 111
Dore, S. E., 203
W. G., 465
Doré, Rev. J. W., 554
V., 513, 518
Dorée, C., 224
Dorion, J., 478
Dorland, A. G., 573
Dorman, H., 409
Dorothea, Sister M., 550
Dorrance, R. L., 532
Dorsey, J. W., 504
Dorward, A. J , 113
W. F , 400
Dott, E. F., 372
N. McO., 372
Double, I. S., 112
Doubleday, F. N., 214
Dougal, D., 236, 498
Doughty, O , 658
Dougill, W., 28, 111
Douglas, A. J., 507
A. V., 487
C. G , 252, 266
D. C., 336
G V., 466
J. A , 250, 267
J. A., M.D., 697
L. W , 484
W. R., 237
Douie, C. O. G., 139
D. L., 82
Doull, A. E., 467
A. E., Jr., 468
Hon J., 467
Douthwaite, A. H., 206
Dover, A. T., 225
Dow, D. R., 397
Rev. J., 561, 570
J. B., 366
Dowdell, E. G., 261, 266, 268
Dower, R. S., 96
Dowker, H., 573
Dowling, G. B., 203
J. J., 425
W., 683
Down, C. H., 601
Downes, O., 511
R. M , 599
Downey, J., 428
Downie, D. G., 357
E. T. T., 601
Downing, E. F., 627
F., 297
R., 333
Downs, A. W., 451
B. W., 46, 49, 53
W. J., 791
Dowse, C. M., 225
Dowson, W. J., 44
Doyle, A. M., 535
A. W., 339
J., 423
Doyne, P. G., 209
Drabble, J., 616
Drake, H. L., 264
Drakeley, T. J., 224, 228
Draper, M. C., 280
Drennan, A. M., 372
M. R., 657

Drever, H. I., 398, 399
J., 87
J., Ph.D., 370
Mrs., 368
Drew, E., 327
H. D. K., 174
J. P., 425
Dreyer, N. B., 473
T. F., 667, 670
Driberg, J. H., 43
Dring, W., 349
Drinkall, J. H., 809
Driver, G. R., 255, 256, 262
J. E., 44, 344
J. E., LL.M., 233
Dromey, L., 429
Droop, J. P., 109
Drower, M. S., 142
Drumm, P. J., 428
Drummond, F H , 599
G. F., 460
H., 89
J. C., 143
J. G., 52
J. M. F., 230
R. J., 332
W. M., 561
Drury, A. N., 52, 62
E. G. D., 677
Drury Shaw, G , 696
Dry, F. W., 648, 649
Dryerre, H., 376
Drysdale, J., 695
Du Cap, W., 519
du Plessis, D. J., 675
I. D., 660
L. J., 676
Du Porte, E. M., 493
du Preez, D. C. S., 675, 676
du Roure, R , 485
du Toit, A. E., 686
A. J., 691
C. A., 689
D. F., 687
J. D , 676
J. S., 661
M. L., 686
M. S., 689
S., 675, 676
Du Toit, F., 695, 697
P. J., 684
P. M., 696
Du Val, P., 233
Du Vernet, G. S., 466
Dube, A. P., 718, 731
R. C., 807
V. S., 731
Dubé, E., 516, 517
Rev. H., 528
Dubeau, E., 517
Dubey, B. C., 779
D. S., 717
K. L., 778
R. N., 717
Ducharme, Rev. S., 529
Duchein, F., 515
Duckworth, W. L. H., 42, 56
Dudden, Rev. F. H., 264
Duder, R., 827
Dudgeon, W., 368
Dudley, D. R., 288
G. G , 345
Duerden, J. E., 679
H., 224
Duff, A. B., 814
A. M., 312
D. C. B., 459
G. H., 548
G. L , 557
Rev. J., 421
J. D., 61
J. F., 78, 81, xxv, xxviii
P. K., 733
P. W., 51, 62
T. A. J., 558
Duffy, G. W , 626
Dufour, Rev. P., 528
Dufresne, A.-O., 477
O., 515
Dugal, L. P., 513
Duggan, G. L., 450
Sir J. N., 735
Duguid, A. M. E., 331
J. B., 332
Duhamel, G., 156
J. A., 517
R., 515
Duhig, J. V. J., 607
Duhr, Rev. J., 736
Duke, A. C. H., 258
Duke-Elder, Sir S , 143, 209
Dukes, C. E., 198, 202
Dulac, J., 40
Dulverton, Rt. Hon. Lord, 30
Dumas, P., 37
Dumbell, S., 109
Dumbrill, W. E , 225
Duminy, J. P., 681
Dunbabin, R. L., 623
T. J., 257
Dunbar, J , 388
R. T., 324
W. B., 555
Duncan, A. C., 37
A. R. C., 143
B. A., 437
E. H. L., 36
G. A., 412, 413, 415, 418
G. S., 398, 402
J. G., 393
J. T., 202
J. W., 490
W. G K., 618
Duncan-Jones, A. E., 22
E., 21
Duncanson, W. E., 143
Duncan-Whyte, M. M., 187
Duncombe, C., 623
Dundas, R. H., 259
Dundon, J., 430
Dunford, A., 145
Dunhill, T. F., 226
Dunington-Grubb, H. B., 555
Dunlop, D. M., 373
E. M., 88
H. A., 153, 206
W. J., 566
Dunn, A., 386
C. W., 186
D., 661
Dunn, F. A. S., 453
J. A., 743
J. S., 388, 390
R. E., 118
Dunne, T. J., 406
Dunnicliff, H. B., 787, 790
Dunning, W. J., 31
Dunstan, A. C., 296
Dunsworth, M. M., 454
Dupaigne, P., 515
Dupré, A., 476
Duras, F., 597
Duraiswami, M. S., 726
Durbin, E. F. M , 180
Durham, Bishop of, 78
Durnford, H. G. E., 57
W. A., 573
Durrant, P. J., 63
R. G , 288
Durrow, A. E., 808
Durward, A., 95
Dushkin, A. M., 814
Dussault, N. A., 480
Dussek, A. T., 158
Dustan, G. G , 561
Dustin, A. P., 286
Dustoor, P. E., 717
Duthie, A. V., 687
E., 538
E. S., 254, 306
Dutt, A. C., 710
B. B., 740
G. R., 778
P. K , 708
S , 755
S B., 717
S. C., 744
S. K., 744
Dutta, W. C., 794
Duttagupta, A. K., 751
Duxbury, F. R., 470
Dwight, T. W , 550
Dwivedi, R. A., 730
B. P., 777
Dworkin, S., 487
Dwyer, Rev. W. J., 553
Dyer, F. C., 556
W. E., 832
W. J., 803
Dykes, D. O , 369
F. J., 50, 61, 76
P. de K., 51
Dymes, D. M. E., 227
Dymond, E. G., 370
J. R., 548
Dysert, Hon. A. K., 503
Dyson, F , 168
G , 226, 228
G. W., 196
H. V. D , 289
W. P., 43

Eagle, A., 233
P. C., 696
Eagles, B., 462
G. H., 202
Eales, N. B., 290
W. C., 659
Eardley, C. M., 587
F. W., 587

Earl, J. C., 614
R. O., 532
Earnshaw, F., 376
J., 312
P. A., 607
Eason, H. J., 411
H. L., 125, xxv, xxviii
J. P., 371
Easson, L. H., 367
East, C. F. T., 206
W. G., 180
W. N., 207
Eastaugh, F. A., 616
Eastham, L. E. S., 297, 305
Easthorpe, C. E., 312
Easton, I. D., 374
Eastwood, A. H., 103
R. A., 233, 242
Eaton, H. W., 371
R. S., 240
Eaves, E. C., 297
Eberts, E. M., 498
Eccles, B. J., 698
Eckhard, E. V., 181
Eckhoff, N. L. B. V., 212
Eddington, Sir A. S., 43, 61, 73, 732
Eddy, J. W. M., 596
Ede, R., 63
Edelstein, J., 696
Eden, W. A., 110, 111
Edgar, C. S., 687
J. L., 362
O. P., 567, 571
Edge, A. B. B., 168
P. G., 204
R., 230
W. L., 369
Edgeloe, V. A., 593
Edgett, G. L., 534
Edholm, O. G., 407
Edington, J. W., 298
Edkins, Mrs., 192
Edmiston, E. S., 605
Edmond, A. D., 358, 363
Fr., 478
Edmonds, H. M., 225
J. M., 45
Edmunds, F. H., 542, 543
I. G., 240
Edson, N. L., 634
Education, India, Minister of, 763
Education, N.Z., Minister of, 638, 641, 644
Education, Pres. Bd. of, 186
Supt. of Delhi, 708
Edulgee, E. M., 807
Edwards, A. T., 212
B. A., 152
C. A., 307, 327, 328
C. P., 344
D. M., 110
E., 111, 114
E. D., 186
E. E., 322, 324
E. G., 339
E. J., 394
E. M., 143
Edwards, F. M, 69
F. R., 117
F. W., 214
Rev. G. A., 307
H. B, 312
H. C., 212
H. T. J., 590
I. ab O., 311
J. F., 536
J. G., 261
J. H., 360
K. C., 340
M. I. N., 742
O. H. 323
P. C., 290
R. S., 179
S. C. 331
S. J., 777
W., 216
W. A., 658
W. B., 85
W. D., 424
W. M., 96
Egan, H. J., 466
Rev. M. F., 424
Egdell, J. W., 36
Egerton, A. C. G., 167
A. E., 511
Eggar, M. E., 231
Eggeling, H. F., 369
Eggleston, R. M., 596, 599
Eggleton, P., 370
Eggli, J. E., 112
Egremont, H. G., 597
Ehrenberg, G. B., 169
Ehrlich, L., 137, 148
Eichholz, D. E, 31
Eig, A., 817
Einhorn, H., 660
Eiselen, G. T. S., 676
Eisler, R., 247, 256
Ekambaram, T., 764
Elahi, S. N., 792
Elam, C. W., 114
Eland, G. M., 31, 37
Elbrecht, B., 680
Elcock, W. D., 296
Elder, H. M., 491
J. R., 633
J. S., 678
Elderkin, C. F., 484
E., 493
Elderton, E. M., 144
Eldridge, A. A., 167, 172
Eleazari-Volcani, J., 814
Elgood, W. N., 33
Elias, D. M., 407
Elias-Jones, M., 317
Elkin, A. P., 613
Elkington, J. St. C., 206
Ellenberger, Rev. R., 693
Ellenby, C., 88
Ellingham, H. J. T., 167
Elliot, J. S., 88
Elliott, A., 297
B. M., 232
B. R., 627
C. A., 56
C. C., 661
F. J., 90
Elliott, G. A., 451
G. A, Ph.D., 626, 629
G. G., 660
J. H., 556, 557
J. R., 644
L. G., 467
M. K., 37
M. R., 446
P. H., 462
S. D., 76
T. S., 380
Ellis, A. W. M., 206
C. D., 152
D. S., 533
G. R., 116
G. W., 203
J. C. B., 255
J. H., 506
K., 544
L., 101
M., 339, 341
N. G., 453
R. G., 558, 559
R. O., 595
R. W. B, 203
S. J., 21
V. H., 209
W. G., 114
Ellis-Fermor, U. M., 191
Ellis Lewis, T., 51, 62
Ellison, F. O'B., 788
W., 313
Ellison-Macartney, J., 174
Ellul, J., 801
Ellwood, W. H., 597
Ellyett, C. D., 639
Elmes, R. S., 86
Elmhirst, R., 75
Elms, C. E., 291
Elmslie, Rev. W. A. L., 70
Elmslie-Smith, A. H., 88
Eloff, G., 695
Elsden, S. R., 370
Elston, C. S. 177
Elton, Lord G., 265
C. S., 253, 260
Elvidge, A. R., 489
Elvin, H. L., 62
R., 40
Elwin, R. M., 187
Elwood, H., 408
Embrey, M. P., 331
Emden, A. B., 268
C. S., 264
Emdon, M., 700
Emeléus, H. J., 167
K. G., 407, 409
Emin, Mrs., 810
Emmanuel, Sister M., 766
Emmet, D., 94
D. M., 238, 239
Emmett, E., 659
W. G., 368
Emory, F. H. M., 559
Emsley, H. H., 226
Endicott, N. J., 549
Engelbrecht, J. A., 680, 682
S. P., 682
Engledow, F. L., 50, 59
English, A., 433

English, J. S., 829
Enright, R S., 820
Ensor, R. K. C., 260
Entwistle, W. J., 253, 260
Epstein, I., 227
J. N., 816
Erasmus, J. F. P., 697
Erb, I. H., 557
Erith, A. G., 290
Ernout, A., 520
Erskine, Lord, 721
Esdaile, A., 142
P. C., 198
Essam, J. M., 240
Esselemont, W. D., 360
Estall, H. M., 534
Estelle, Sister M., 567
Esteller, Rev. A., 734, 736
Estelrich, J., 286
Estermann, T., 142
Etherington, F., 536, 537
J. M. H., 369
Ettinger, G. H., 534, 535
Ettinghausen, W. G., 265, 269
Eumorfopoulos, N., 143
Eushaw, Sd., 764
Eustace, J. L., 590
Evans, A., 332
A. E., 226
A. G., 206
A. H , 212
B. I , 174
C. Lovatt, 143, 146
D , 312
D. E., Wales, 324, 325
D. Emrys, 317
D. G., 237
D. L., 385
D. L. Trevor, 308
D. O., 311
D. O., D Phil., 461
D. S., 248
E., 18
Rev. E., 82
Sir E., 347
E., B.Litt., 270
E. J., 328
E. V , 179
G., 314
Sir G., 836
G. C., 44, 60
G. T. R., 694
H., 206
H. E., 313
H. J., 140
H. T., 332
I. L., 311, xxv, xxviii
Rev. J., 308
J. C., 350
J. R. C., 508
Rev. J. T., 307, 318
Rev. J Y., 307
Rev. K. C., 553
L. J. C., 834
M. D. A., 331
M. G., 230
M. H., 306
R. C., 48, 63
R. D., 466
R. H., 103
Evans, T., 324
T. G., 333
T. J., 203, 214, 216
U. R., 48
W , 206
W. C., 98
W. G., 361
W. G., Canada, 561
W. H., 112
W. H., M.D., 117
Evans-Pritchard, E. E., 253
Even-Ary, M., 814
Evenett, H. O., 47, 62
Everett, D., 270
Everidge, J., 212
Evers, H. H., 89, 90
Everson, D. W., 628
Eves, J. W., 107
Evetts, L. C., 85
Ewald, P. P., 380
Ewart, A. J., 603
A. M., 270
G. A., 212
Ewbank, Hon. R. B., 472
Ewen, A H., 543
Ewence, H , 83
Ewert, A., 252, 266
Ewing, A. C., 49
A. W. G., 231
I. R , 231
Ewles, J., 98
Eybers, E., 670
Eyre-Walker, C., 754
Ezekiel, M., 736

Faber, G. C., 257
O., 75
Fabergé, A. C., 145
Faessler, C., 477
Fafard, L., 515
Fagan, T. W., 313
Fahmy, E. C., 374
Fahrni, G. S., 507
Fahy, Rev. T., 432
Faid, Mrs. J. E., 804
W., 804
Fairbank, J. G. A., 214
Fairbault, R., 515
Fairbourne, A., 150
Fairbrother, F., 230
R. W., 237, 246
Fairhurst, H., 384
Fairley, B., 538, 551, 567
E. S., 394
N. H., 214
Fairlie, M., 400
Fairmaid, R. L., 634
Faithfull, R. G., 113
Falconer, A F., 398
A. W., 657, 664
J. G., 556
J. W., 465, 470
Sir R. A., 435
Fallon, W. M., 433
Fani, Md. A. Q., 759
Fantham, H. B., 498
Faris, D. W. G., 830
R. E. L., 487
Fargier, Rev. F., 764
Farjeon, H., 226
Farkas, L., 814
Farley, W. H , 103
Farmer, E , 49
Rev. H. H., 53
Farnan, R. P., 426
Farnell, V., 270
Farooqi, M. M. A., 714
Farquharson, A. S. L., 267
J., 807
R., 498
R. F , 556, 558
Farr, F. J., 804
Farran, A. C., 736
Farrar, C. B., 558
Farrell, B. A., 694
E., 423
J. F. E., 394
R. B., 615
Farrent, T. A., 588
Farrer, Rev. A. M., 255, 266
B. H. P., 672
Farrington, B., 315, 327
S. W., 428
Farrugia, P., 800
Faruqi, L. A., 783
Farvis, W. E. J., 327
Fassler, J , 680, 692
Faulkner, A. W., 469
H. W., 169
O. T., 834
T. E., 399
Faure, J. C., 683
Fauteux, A., 513, 519
G., 488
M., 517
N., 518
Fawcett, A. W., 299, 300
C. B., 141
S. G. M., 595
Fawn, G F., 35
Fawsitt, C. E., 614
Fay, C. R., 45, 47
Fearn, R. J., 742
Fearnsides, W. G., 296
Fearon, W. R., 412, 415, 420
Feather, N., 49, 62
Feetham, R., 692
Feggetter, G. Y., 90
Fehrsen, F. O., 658
Feiling, A., 206
K. G., 259
Fekete, M., 815, 816
Feldberg, W., 49
Feldman, D., 696
Fell, J., 736
S. R., 102
W. A., 829
Fenelon, K. G , 240
Fenn, H. R. B., 214
Fennell, A. B., 547, 563
Fenner, C. A. E., 588
Fenton, E. W., 376
W. J., 206, 221
Fenwick, A. H., 803
Fergus, T., 635
Ferguson, A., 175
A. S., 359, 363
D., 511
D. M., 522
F. L., 561

Ferguson, F. R., 236
H. H., 634
J., 451
J. B , 549
Jessie, 41
J. G. W., 672
J. K. W., 558
M. M., 392
R. H., 505, 506
R. M , 541
R. M., M.Sc., 240
W. A., 544
W. J. W., 299
W. S , 547
Fergusson, D. C., 371
M. B., 194
Ferland, A., 515
J , 478
Fermor, C E., 184
Fernand, V. S. V , 822
Fernandes, T , 778
Fernandez, A. C., 736
Fernando, B. E , 823
C. F., 822
P. B , 822
W , 821
Ferns, H. H., 542
Feroz, B., 754
Ferrar, W L., 261
Ferrarro, V. C. A., 152
Ferro, E. H., 801
Ferron, A., 517
Ferry, R. M., 75
Fervac-Laroze, A., 518
Fetherstonhaugh, E. P , 504
Fickling, B. W., 215
Fiddes, F. S., 372
J , 543
Fidlar, E., 554
Fidler, I , 622
N. D , 559
Fiedler, H. G., 265
Field, F., 460
G. C., 32
H. E., 638, 639
J , 623
Fielden, F. J., 714
Fieldhouse, H N., 504
Fielding, U , 139
Fife, C. V , 648
J. K., 453
Fifoot, C. H. S., 253, 260, 269
Fildes, G., 212
L. G., 181
Files, H. G., 485
Filion, E., 514
Filon, L. N. G., 148
Finch, E. F., 300
G. I., 167
R. D. C., 550
Findlay, A , 357
A. F., 360, 363
C. S., 304
Sir C S., 371
Rev. J. A., 238
J. J , 231
J. N., 634
W., 500
W. M., 360
Finer, H., 180
Finkelman, J., 552
Finlay, A. H , 460
T. M., 369
T. Y., 371
Finlayson, B. M , 554
H. H., 587
J. N., 460
Finn, D. B., 466
Finnan, E. J., 406
Finnemore, H., 618, 622
Finnigan, W. B., 803
Finzi, N. S., 212
Firth, A. C. D., 206
C. B., 225
C. G , 596
J. B., 344
J. R., 148, 188
R. W , 179
Fischer, H., 549
Fish, E. W., 143, 215
Rev. T., 239
Fishenden, M , 168
Fisher, A. G. B , xxvi, xxviii
Rev. B. H. P., 37
B. S., 672
E. E., 595
E. M., 24
Rt. Hon. H. A. L., 263
H. M., 589
J., 550
J. A., 34
J. H., 574
J. W., 152
K. C., 548
M., 696
M. G., 371
M. S., 169
R. A., 145, 749
R. B., 248, 269
R. M., 447
T. N., 235
W. E., 619
W. H., 288
Fishwick, V. C., 184, 185
Fisk, W. M., 498
Fismer, M. v.d. L., 688
Fitchett, F. W. B., 635
Fitt, A. B., 641
Fitzgerald, A. A., 596
D. P., 428
G. E., 596
G. P., 635
H. W., 635
Hon. R. D , 829
R. R , 491
W., 232
FitzGerald, J. G , 556, 559
S. G. V., 188
FitzGibbon, G. M., 35
G., 412
FitzHerbert, J. A., 587
Fitzimons, R A., 212
Fitzpatrick, H. M , 425
K. E., 597
Fitzwilliams, D. C. L., 212
Flack, G. E., 339
Flahaut, J., 513, 518
Flammer, E., 534
Flanagan, J. C., 492
L., 426
Flattery, T. P , 617
Flay, A. H., 646
Fleet, G. A , 491
W. F., 225
Fleischer, W. L , 75
Fleischmann, A. G , 429
Fleming, A., 202
A. G., 491
A. M., 208
C. M., 158
E. G., 345
G. B., 387
I., 392
K., 400
R. J , 700
W. A., 366
Rev. W. L. S , 62
Flemington, Rev. W. T., 522
Flemming, C. W., 139, 212
Flenley, R., 551
Fletcher, A., 113
A. A., 166
A A , M.B., 557
B. A., 466, 524
F. T. H., 112
G. B. A , 86, 305
G. W., 512
Rev. M., 94
R., 504
Rev. R. F. W., 268
Flett, W. R., 384
Fleure, H. J., 232, 242
Flew, Rev. R. N., 70
Flexner, S., 75
Flieger, B. W., 525
Flinn, R. J., 467
Flint, E. M., 766
E. R., 101
H. T., 152
Flood, P., 219
Florance, D. C. H., 645
Florence, P. S., 20
Florey, H. W., 254, 261
Florovsky, Father, 404
Flower, A. E., 638
B., 140
R., 137, 420
R. E. W., 140
Flugel, J. C., 144
Flynn, M. R., 618
T. T., 407, 409
Foakes-Jackson, Rev. F. J., 56
Focken, C. M., 634
Fodor, A., 814
Foenander, O. de R., 596, 598
Fogarty, O. J., 800
Fogg, W., 312
Foggan, D., 89
Foggie, A., 407
Foley, R A., 219
W. T., 539
Folger, H. P., 535
Foligno, C. C., 142, 148, 251, 262
Folley, Mrs., 192
S. J., 290
Fonseka, E. L., 820, 824
Fontaine, R., 516, 517
Fook, W. L., 804

Foote, H. J , 698
Foran, M. R., 544
Forbes, A. G., 660
D. S., 492
G , 299
Most Rev. G., 527
P. B. R., 367
R. J., 234
V. S., 778
Ford, A. C., 125
E. B., 253, 267
E. H., 28
Justice F., 450
F J., 387
G. P., 346
H. E., 550
N. H. C., 548
P., 345
Ford-Smith, R. E., 344
Forde, C. D., 312
Forder, H. G., 642
Fordham, A. A., 327
M. G. C., 114
Fordyce, A. D., 123
C. J., 383
Forest, Rev. C., 514
R. P. C., 518
Forestell, Rev. D. L., 551
Forman, F., 661
L., 203
Formby, M. L., 205
Forner, Rev. B. N., 560
Forrest, G. A., 32
J., 399
J. E., 175
W. D., 469
Forrester, R. B., 311
Rev. W. R., 398
Forsey, E., 485
G. F., 345
Forster, A. J., 262
E. S., 296
H. V., 116
L., 803
L. W., 47, 63
Forsyth, C. H., 246
R. L., 662
Fortescue, C. L., 168
Fortier, E., 480
Fortin, L. de G., 476
Forward, F. A., 461
Forword, M., 677
Foster, I. L., 110
J., 100
J. F., 586, 595
J. G., 178, 253, 257
J. S., 487
M. B., 259
P. F., 323
T. S., 31
W., 573
W. A., 326
Fothergill, P. G., 327
Fouché, F. P., 696
L., 694
Fourie, F. C. v. N., 669
I. S., 669
L., 700
P. J. J., 684
Fournier, Abbé O., 513
Foweraker, C. E , 638
Fowke, V , 542
Fowler, E. A., 239
H. L , 627
Mrs., 192
R. F., 179
R. H., 49, 61
W. J. R., 562
Fowweather, F. S., 100
Fox, Rev. A., 252, 262
A C., 627
C., 177
H. Munro, 23
I., 30
T. R. C., 51
W. S., 572
Foxon, G. E. H., 324
Foxton, H. V , 607
Fraenkel, A., 814, 815
E. D. M., 248, 260
G., 170
P. H., 627
France, N. H., 804
W. G., 95
Francis, E. A., 270
E. T. B., 297
J E., 90
P. V., 767
W. B., 542
Francken, A , 669
Franco, J., 764
Frank, T., 256, 258
Frankau, C. H. S., 212
Frankel, M., 814
S. H., 693
Franken, J. L. M., 688
Franklin, E. W., 777
G., 492
J. L , 203
K. J , 254, 264, 281
M. C., 646
N. N., 677
Franks, A. H , 341
O. S., 385
Rev. R. S., 37
W. R., 556
Frappier, A., 516
Fraser, A. D., 34
A. M., 827, 828
C. McL., 462
D. T., 556, 559
E., 144
F., 556
F. H., 559
F. R., 206
G. H., 809
H., 291
I. M., 543
J., 248, 261
J., Dublin, 412
Sir J., 373
J. H., 541
J. R., 490
L. J., 447
L. M., 359
P., 32
R., 522
R. H., 512
R. MacG., 447
W. C., 402
Fraser, W. I. R., 386
Fraser Roberts, J. A., 34
Frater, K , 622
Frawley, N. D., 557
Frazer, A. C., 211
J. E. S., 201
Sir J. G., 61
M. J. L., 405
P., 124
W. M., 116
Fréchet, A. L. G., 31
J. R., 296
Frederick, W. H., 596
Fredericton, Archbishop of, 474
Freeman, G. F , 225
H. A., 500
J., 202
K., 323, 329
L. J., 226
M., 605
P., 170
T. W., 413, 414
Freer, P., 692
Freeth, F. A., 140
French, R. B. D., 414
R. de L., 488
W. E., 103
Frendo, P. G , 800
Frenette, O. D., 480
Freshwater, D. H., 203
Fretter, V., 177, 194
Frew, R. S., 203
Frey, R. P., 543
Freyhan, R., 193
Fricker, B. J., 37
H. A., 567
Friedenreich, V., 148
Friedlaender, E., 688
Friedman, J., 696
Friedmann, W , 223
Friel, E. S., 416
G., 698
Friend, G. F., 370
Friesse, E., 340
Frigon, A., 518
Fritsch, F. E., 174
Fritz, M. A., 551
Froman, D. K., 493
Frost, G. B., 532
Fry, D. B., 143
H. K., 589
M. W. J., 412
T. P., 606
W. K., 215
Fryer, C. E., 486
J. R., 451
Fulford, R. T. B., 151
Fuller, E. B., 657, 666
G. R., 588
Fullerton, H. W., 361
Fulmer, H. L., 561
Fulton, A. R., 398
J., 498
J. S., 258
J. S., D.V.S., 543
J. S., M.D., 387
J. S., Ph.D., 487
R. A. H., 635
W., 383

Funnell, W. S., 549
Furlong, E. J. J., 414
Furneaux, B. S., 184
Furness, Mrs. L. T., 485
Furnivall, J. S., 52
Furnwall, J. S., 187
Fyfe, D. T., 43
M. L., 633
W. Hamilton, 357, xxv, xxvii
Fynne, R. J., 413, 418

Gabriel, R. M., 97
V., 823
Gaby, R. E., 558
Gadd, C. J., 150
Gaddie, R., 110
Gaddum, J. H., 148, 211
Gadoffre, G. F. A., 232
Gage, H. C., 212
W. H., 461
Gagne, C., 474
J. A., 479
Gagni, A., 476
Gagnon, A., 476
C., 479, 480
E., 515
F., 480
H., 478
P., 477
Gainsborough, H., 206
Gaiser, L. O., 500
Gaitskell, H. T. N., 144
Gajendrugadkar, A. B., 735
Galbraith, L., 603
V. H., 369
Galea, Most Rev. E., 800
The Hon. R. V., 800
V. R., 800
Gallagher, P. H., 425, 432
Gallas, R. R., 156
Gallie, I., 267
W. B., 328
W. E., 538, 558
Galloway, A., 692
A. R., 361
Gallus, H. P. C., 591
Galton, D., 162
Galway, M., 196
V. E., 634
Gamblen, F., 627
Ganado, W., 801
Ganapatiayyar, C. N., 766
Gandhi, C. M., 738
N. P., 731
Gandy, E. W., 201
C., 233
Ganesan, A. S., 779
D., 726
Gangadharam, G., 722
Ganguli, B. N., 754
H. N., 794
N., 777
P. B., 794
S, 751
Ganguly, D. C., 730, 751
D. N., 751
Gann, T. W. F., 124
Ganshof, F., 380
Gapper, R. L., 312
Garabedian, D., 261, 269
Garant, C. O, 479
O., 480
Garcke, Rev. H., 112
Garde, D. K, 779
M. L., 613
V. G., 777
Garden, D. J., 240
Gardham, A. J., 213
Gardiner, J. S., 55
P., 198
T. W., 778
W. J., 558
Gardiner-Hill, H., 206
Gardner, A. D., 254, 267
Rev. A le D., 474
C. A., 626
G, 513
H., 21
J., 390
J. A, 203
O., 470
R., 45, 55
W. A., 507
Gardner-Smith, Rev. P. 45, 56
Garnépy, L. H., 517
U., 517
Garland, H. B., 47
H. G., 100, 101
Garmonsway, G. N., 151
Garneau, P., 479, 480, 481
Garner, F. H, 50
W. E., 31
Garnett, A., 296, 305
Garnsey, Rev. A. H, 618
Garrard, E. H., 561
Garrett, H. L., 69
Rev. J, 791
J. G., 22
Mrs., 523
W., 371
Garrick, F. J, 96
J. A, 394
Garrod, D. A. E., 64
H. W., 263
L. P., 202
Garry, R. C., 400
Garside, J. S., 41
S., 193
Garstang, F., 118
J, 109
W., 320
Garon, Ls.-Ph., 476
Garton, W. R. S, 170
Gartrell, H. W., 588
Garvie, I., 386
Garvin, W., 539
Garwood, R. F, 239
Gaselee, Sir S., 58
Gash, N., 142
Gaskell, J. P., 660
Gaskoin, C. J. B., 47, 63, 69
Gasparini, L., 326
Gass, C. L., 522
Gaster, V. I., 708
Gatacre, Lady, 41
Gatenby, J. B., 415
Gater, B. A. R., 829
Gates, E. C., 618
Gates, G. E., 808
R. Ruggles, 150, 151, 156, xxv
Gattet, B., 515
Gatty, H. P. W., 60
R. J, 60
Gaudette, G., 476
Gaudin, J. de G., 378
Gaudreau, S., 479
Gaudreault, P.-M., 478
Gaul, E. G., 246
Gaumond, E., 479, 480
Gaunt, R. T., 297
Gautheron, F. R., 466
Gauthier, A. 514
Abbé O, 513, 514
G., 476
P. P., 516
R., 513
Gautier, Y., 478
Gawler, J. S., 595, 602
Gaylard, J. F., 678
Gaylor, J B, 387
Gazley, J. G., 320
Gear, J. H, 696, 697
Geary, C. L. H., 790
F. C, 259
Geddes, A., 369
A. E. M., 359
S., 394
S., M.B., 408
W., 113
Gedge, E. C., 196
Gee, C. A H., 41
L. W., 639
Geere, E., 83
Geerin, S. L., 635
Geering, R., 696
Geiger, A., 815
Geijl, P., 666
Geldart, Ll. P., 523
Gelling, W. E., 99
Gemeroy, G. A., 454
Gemmell, A. A., 116, 117
D. H. O, 395
D. M., 669
Gemmill, W., 24
Gemser, B., 681, 682
Gendreau, E., 515, 519
J. E., 516
Gendron, Rev. J., 528
L., 515
Généreux, D., 520
Genest, R., 515
Geoffrion, L. P., 477
P., 517
George, A. R., 485
C. J., 736
H. J., 248, 261, 265
P., 311
R. K., 547
T. N., 327
W. H., 349
Gérard, P., 137, 156
Gerdener, G. B. A., 688
Gérin-Lajoie, A., 515
L., 516
Sr. M., 519
Gerrard, E. A., 236
H., 232

Gerrard, J. M., 768
W. I., 804
Gerrie, J. W., 492
Gervais, G., 478
Gevers, T. W., 693
Gey van Pittius, E. F. W., 681
Geyer, E. W., 386
Geyl, P., 679
Ghani, M. A., 790
M. A., M.Litt., 777
Gharpure, J. R , 738
N. K., 737
P. V., 735
Ghatak, M. N., 808
Ghatge, M. B., 737
Ghezzi, C., 736
Ghose, S. L., 787, 790
Ghosh, A. B., 754
A. N., 731
B. C., 744
B. N., 741
D., 744
Dwarkanath, 734
J., 743
J. C., 750
J. N., 795
M., 778
M. K., 717
N., 743
P., 743
P. C., 731
P. K., 785
P. N., 708, 741
R., 743
R. N., 718
S., 717
S., Calcutta, 740
S., D.Sc., 742, 749
Ghoshal, U. N., 743
Ghurye, G. S., 734
V. S., 737
Gianetti, G. G., 834
Giasson, A., 476
Gibb, A. D., 386, 390
C. A., 615
D., 369
H. A. R., 254, 266
M. G., 361
Gibbard, Rev. S. M., 37
Gibberd, G. F., 208
Gibbings, R., 288
Gibbon, E., 91
Gibbons, W. M., 295
Gibbs, Mrs. C., 785
E. F., 33
N. H., 263
R. D., 485
R. E., 143
Gibby, C. W., 81
Giblin, L. F., 57, 596, 602
N., 487
Gibson, A., 503, 507
A. Boyce, 598
A. G., 254, 263
A. H., 232
A. J., 617
C. S., 203
D. T., 383
E., Canada, 520
J. M., 525
Gibson, Rev. J. P. S. R., 69
M. J., 400
Q. B., 627
R., 235
S., 247
T , 371, 376
W., 535
W. H. H., 616
Giffen, E., 151
Gifford, J., 236
J. L. K., 606
Gignac, Mgr. J., 477, 479
Gilani, M. A., 783
Gilbert, A. S., 223, 147
C., 87
C. W., 49, 56
E. W., 250
G., 404
L. F , 140
M. E., 175
Rev. T. W., 199, 200
Gilbert-Carter, H., 44, 72
Gilchrist, A. R., 374
H. A., 454
J. A., 390
J. C., 332
L., 553
Gild, A., 88
Gildard, G., 392
Gilding, H. P., 23
Giles, A. F., 369
Gilham, C. W., 97
Gill, A., 369
C., 29
E. W. B., 252, 263
F., 416
J. E., 486
Gillam, A. E. M. G., 230
Gillespie, J., 288
R. D., 207
R. P., 384
W. A., 415
W. F., 453
Gillett, C. R. E., 289
Gilliat, W., 208
Gillies, A. D., 622
G. A., 461
J. C., 95
Gilligan, A., 97
Gilliland, H. B., 693
Gillingham, A. G., 827
Gillis, J., 407
Rev. J. H., 539
L., 109
Gillman, J., 692
Gillmor, H., 447
Gillson, A. H. S., 486
Gilmer, J. S., 46
Gilmore, J. A., 660
Gilmour, C. R., 506
G. P., 501
J., 88, 90
S. M., 534
Gilpin, A., 206
Gilson, E., 553
H. C., 50, 62
Gimkey, S. F., 695
Gingras, R., 477, 480
Ginigé, A., 820
Ginsberg, M., 181
Giraux, M., 476
Girdlestone, C. M., 87
G. R., 254, 264
Girdwood, R. L., 696
Giroux, A., 476
M., 479
Girvan, J , 386
R., 383
Gittins, G. S., 338
Gladwyn, A. E., 225
Glaister, E., 168
J., 387
Glanely, Lord, 322
Glanville, S. R. K., 141, 146
Glason, J. A., 294
Glavina, L., 801
Glazebrook, G. P. de T., 551
Glen, A., 387
Glimo, G. R., 320
Glover, B. T. J., 116
J. S., 562
M. R., 271
T. R., 42, 45, 59
Glover-James, H., 346
Gluck, B., 332
Gluckman, I., 696
Gluckmann, H., 698
Glynne, A., 240
Gnanamuttu, A., 766
Goadby, H. K., 206
Sir K. W., 202
Goble, H. W., 561
Godavarma, K., 798
Godbole, N. N., 731, 749
S. N., 777
Goddard, E. J., 605
L. J., 744
Godfrey, C. F., 412
F. la T., 412, 414
J. W., 467
R. G., 559
Godin, H. J. G., 406
Godsall, R. S., 617
Godward, M. B. E., 174
Godwin, H., 44, 54
Goggio, E., 552
Goil, R. B., 758
Goitein, H., 20, 178
S. D., 815
Gokak, V. K., 737
Gokhale, L. K., 777
V. V., 737
Gold, J., 223
Goldberg, A. J., 661
L , 596
Goldbloom, A., 490
Goldby, F., 587
Goldenberg, J. M., 542
S., 657
Goldfinch, H., 607
Goldhaber, G., 814
Goldie, W., 101
Golding, E. W., 340
Goldsbrough, G. R., 87
Goldschmidt, L. B., 662
Goldsmith, A., 695
P. G., 557
W. N., 203
Goldstein, S., 48, 60
Goldsworthy, N. E., 617

Goligher, W. A., 412, 413
Golla, F. L., 219
Gollerkeri, P. G., 809
Gomaa, Sh. M. M., 186
Gomatisankaraayyar, V., 727
Gomes, A. A., 824
H. de B., 153
Gomme, A. W., 383
Gonetz, O., 688
Gonin, F. C., 671
H. L., 691
H. L., Pretoria, 681
Gonsalves, Rev. T., 766
Gooch, G. P., 349
Good, E. M. F., 595
W., 390, 393
Goodall, A., 374
I., 116
J. R., 490
S. I., 642
Goode, C W., 99
J. R., 591
J. S., 598
Goodeve, C. F., 140
Goodhart, A. L., 253, 267
Goodier, J. N., 555
Goodlet, B. L., 660
Goodman, A. E., 52
Goodrich, E. S., 253, 263
Goodstein, R. L., 289
Goodway, N. F., 224
Goodwillie, J , 359
Goodwin, A., 251, 261
A., M.D., 208
A. J. H., 657, 665
E. T., 297
H., 305
L. F., 533
T H., 288
W., 185
Goodyear, E., 141, 146
Goossens, A. P , 675
Gopal, Madan, 778
Gopalakrishnaaiyar, P. G., 807
Gopalamenon, A., 797
Gopalarao, G., 722
Gopalaswamiaiengar, V., 771
Gopalaswamy, M. V., 772
Gopalayyar, R., 763
Gordon, A. H., 489
A. R., 549
C., 359
C. G. S., 115
E., 566
E. V., 246
G. F. C., 76
G. S., 247, 262
H. D., 623
H. M., 615
I., 661
I. A., 644
I L., 232, 245
J., 101
J. E., 371
K., 489
K. W , 544
M., 696
R. K., 450, 456
R. M., 112
Gordon, W., 533
W. L., 657, 662
W. T., 151, 154, 156
Gordon-Taylor, G., 213
Gordon-Walker, P. C., 259
Gore, C. H., 265
V. V., 777, 778
Gorman, M. J., 425
Gormley, P. G., 424
Gorrie, C. G. R., 599, 600
Goshal, U., 743
Goss, F. R., 96
Gosse, A. H., 206
N. H., 468, 469
Gosselin, Mgr. A. E., 477
G., 515, 516
J., 480
Goswami, G , 755
Gott, R. H , 793
Gottlich, S. F., 698
Goudge, Rev. H. L., 255, 259
T. A., 553
Goudie, W. J., 392
Gough, C. E., 97
G. S , 51, 62
J , 332
J. W., 251, 264
Gouin, L. M., 518
Gould, A. J , 813
E. L. P., 213
J. W., 659
Mrs. M., 176
S C., 31
S. H., 549
W. H., 644
Goulden, C. B., 209, 222
C. H., 505
Goundar, A. R., 767
Gour, V., 731
Gourlay, H. C., 500
N., 384
Govan, A. D. T., 24
Govil, K. L , 717
Govindarajan, L. N., 764
Govindarajulu, L. K , 728
S., 767
Govindasvami, S. K , 727
Gow, A. E., 206
A. S. F., 45, 62
P. F., 743
Gowan, E. H., 451
Gowland, W. P., 633
Goyer, M., 336
Grace, A. J., 574
J., 63
W. H., 116
Gracie, J., 387
Graebner, R. M , 627
Graf, H., 684
Graff, W. L., 486
Graham, A., 177
Miss A., 338
A. D., 608
C. W., 374
D. A L., 556
D. B., 265
D. J., 541
G., 206
G., Ph.D., 534
H., 406
Graham, J K. L., 22
J. M., 360
J. M , M.B., 373
J. V., 465
K. D., 678
N. B , 408
N C , 407
R. J. D., 397
R. P. D , 486
R. R., 538, 561
S. G., 387
S. N., 534
T. C , 567
T. S., 384
V. E., 543
Rev. W. C., 508
W. R., 561
Graham-Bryce, A., 237
Graham-Harrison, Sir W., 246
Graham-Little, Sir E. G. G., 18
Graham-Smith, G. S., 52
Grahame, T., 366, 376
Grainger, B. M., 295
P., 498
W. A., 618
Grand d'Esnon, B., 194
Grant, A. D., 258
C. R., 370
G., 345
H. C., 505
Mrs. H. F., 23
H. G., 469
Mrs. I , 810
J., 357
J. C., 360, 362
J. C. B., 547
K , 588
K. M., 465, 467, 468
M , 62
M. E., 446
M. W , 198
R., 467
R. R., 547
W., 297
Mrs. W., 484
W. F., 658
W. G , 700
Grant-Bailey, S. N., 259
Grantham, J., 55
Grassie, J. C., 358
Grattan, J. H. G., 112
Grauer, A. E., 554
Grave, W. W., 42, 50, 55, 63
Gravel, J., 479
Rev. J., 529
L., 478
L., D.Sc., 476, 478
Graveson, R. H., 223
Gray, A., 56
A., Scot., 367
A. M. H., 203
A. O., 208
D. H. F., 271
E. W., 259
G. C., 453
H. St. G., 338
J., 50, 57
J., M.D., 210
J. A., 534

Gray, J. D. A., 41
J. E., 90
J. H., 139
J. L., 695
K. G , 552, 556
M. D , 744
M. F., 461
M. M., 383
P. H. H., 493
R. A. H., 88
R. C., 385
W. M., 395
Greaves, A. V., 804
Sir E., xxvi
H. R. G., 180
R. I. N., 52, 56
R. W., 192
W. M. H., 367
Green, A. E., 56
C. A., 380
Rev. D. C , 416
F. C., 46, 58
F. H. W., 345
G., 385
G. H., 311
H. A. C., 194
H. E., 43
H. G., 341, 343
H. L. H., 42, 61
H. M., 613
H. N., 299
J., 32
J., C.A., 405
J. S., 600
K. D., 597
N. K., 184
R. B., 79, 85, 88
S. E., 170
S. L., 175
T. G., 124
T. L., 31, 41
Greenaway, G. W., 336
Greenberg, M., 696
Greene, D. W., 413
E., 449, 453
L. S., 326
Sir W. A., 257
Greenfield, E. C., 657
J. G., 221
Greenhowe, G. E., 362
Greening, Rev. E. W., 416
Greenish, V. A. F , 215
Greenland, P. C., 618
Greenshields, Hon. R. A. E., 457
Greenslade, C. M., 635
Rev. S. L., 266, 269
Greenwood, A. W., 371
F., 29
F. R., 24
H., 693
J. N., 598
L. H. G., 45, 55
M., 204
T., 177
Greeves, R. A., 209
Greey, P. H., 557
Greg, W. W., 141
Gregh, F., 137
Grégoire, E., 478
Grégoire, J. E., 478
Gregory, A. L., 231
C. C. L , 142, 165
E , 306
E., Otago, 633
F. G., 166, 170
Mrs. H. H. C., 203
H. S., 170
J. C., 97
T. E., 183
T. S., 616
Greig, A. W , 604
E. D W., 373
J , 20
J. T., 461
J. Y. T., 693
Grenier, H., 478
Grensted, Rev. L. W., 256, 264
Gresson, K. M., 639
R. A. R., 370
Greswell, E. A., 280
Greval, S. D. S., 742
Grewe, H. F., 296
Grey, W. G., 53
Greysvenstein, J. H. J., 682
Gribble, Rev. A. S., 41
Grice, H. P., 266
Grier, L., 270
Grierson, Sir H. J. C., 366, 380
M., 369
P., 47, 56
Grieve, Rev. A. J., 238, 244
B. J., 595, 599
Griffin, A. K., 465
J. D. M., 554
S. G., 109, 114
Griffith, A. D., 209
B. A., 552
B. B., 460
G. T., 45, 56
H. D., 359
I. O., 258
J. G , 261
J. J., 313
J. L., 423
Sir J. P., 414
M., 314
R. O., 110
Griffiths, B. M., 81
D. Ll., 234
E., 326
E. T., 331
E. W., 544
G. S., 340
H., 671
J., 111
Rev. J., 308
J. D., 313
J. H. E., 260, 262
J. R., 313
M E., 271
R., 328
T. H., 314
W. J., 210
Grillo, E., 384
Grima, Rev. S., 800
Grimbleby, F. H., 290
Grimes, M., 429
Grimm, G., 40
H., 148, 326, 380
Grimoldby, J. R., 295
Grimshaw, M. E., 64
Grindley, E. N , 660
G. C., 49
Grist, Mrs., 95
W. R , 106
Grobbelaar, C. S., 689
Grobler, N. J., 670
Groenewald, E P., 682
J. W., 684
Groff, C L , 505
Grondahl, I. C , 144
Grose, S. W., 53
Gross, F , 370
Grosskopf, J. F. W., 683
Groulx, Abbé L., 514
Grout, J. L. A., 300
Grove, A. J., 175
G. A , 22
W. P., 140
Groves, L. G., 346
Grubb, K. G , 29
Grube, G. M. A., 549
Gruffydd, W. J., 315, 324
Grünhut, M , 137
Gschaedler, A , 614
Guay, E., 477
Rev. A., 528, 529
Guelke, R., 660
Guénault, P. H., 693
Guercio, F. M , 152
Guess, G. A., 555
Guest, D. H., 349
Guetz, H., 762
Guggenheim, E. A., 167
Gugushvili, A., 187
Guha, A. C., 809
B., 740
B. C., 751
P. C., 828
P. K., 750
R. C., 777
S., 753
S. C., 808, 809
Guhasarkar, S. S., 750
Guigou, M. C , 340
Guilbeault, Abbé Chs. E , 515
Guillebaud, C W., 45, 60
Guimont, P.-H., 478
Guindon, Rev. A., 527, 528
Guiton, P. A., 678
Gulak, A., 816
Gulasekharam, F. H. V., 820
Gulland, J. M., 339
Gullick, C. F. W. R., 250
Gulshanrai, B. A., 788
Gummer, C. F., 534
Gumpert, T. E., 299
Gunamani, I. D., 779
Gunasekera, S. T., 822
Gunawardena, H. O., 823, 824
S. A., 823
Gunderson, G., 598
S. E., 599
Gundy, H. P., 522
Gunjikar, K. R., 736
Gunn, B. G., 254, 265
D. L., 23

Gunn, J. A., 254, 258
J. A., D Sc., 281
J. A., M.D., 507
J. A., Ph.D., 600
J. A. L., 614
J. W. C., 661
R. M. C., 615
Gunnell, D., 97
Gunther, R. W. T., 253, 281
Gunton, J. A., 572
Gunvaldsen, K. M., 561
Gupchup, N. S., 737
Gupta, A. C. Sen, 777
B. B, 820
B. L, 776
D. D., 759
D. P., 777
K., 754
K. B., 795
K. D., 731
K. N., 731
L. D., 717
O. P., 760
R. R., 755
S., 731
S. C, 744
S. C. D., 730
S. K. D., 760
S. P, 757
U. M., 794
U. N., 753
Gurbaxani, H M., 737
N D, 738
Gurd, F. B., 491
Gurdon, P. R. T., 186
Gurney, R. W., 33
Gurrey, P., 158
Gurtu, I. N., 717
Guruswamisastriar, R, 727
Guthkelch, Mrs., 315
Guthrie, F. C., 123
H. W., 371
P., 561
P. G. M, 459
S. K., 235
W. K. C., 45, 58, 305
W. T., 121
Gutkind, C. S., 192
Gutteridge, E. W., 599
H. C., 51, 62
N. M., 607
Guttmann, J., 815
Guy, O. V., 56, 70
Guyler, T. W. C, 118
Guzdar, J. S., 804
Gwyer, B. E., 270
Gwynn, Rev. A., 423
Rev. R. M., 412, 416
Gwynne, M. B., 158
Gwynne - Vaughan, Dame Helen, 176
Gyani, S. D, 779
Gyi, J. K., 808

Haan, H. W., 803
Haarhoff, T. J., 693
Haas, Rev. A., 765
G., 816
P., 140
Habakkuk, H. J., 58
Habib, Md., 714
Habibullah, S. M., 757
Hackett, F. E. W., 425
J. R., 430
W. M., 270
Hackforth, R., 45, 60
Haddon, A. C., 53
Haddow, G. C., 500
W. R., 548
Haden, E. F., 500
Hadfield, G., 210
J. A., 153
Hadley, P. A. S., 56
Hadi, A., 767
Hadow, G. E., 271
Hafiz, H. M. A., 743
Hafizullah, M., 784
Haggen, G. L., 97
Haggit, A. N., 634
Hague, B., 386
R. M., 588
Haider, M., 713
Hailes, W. A., 600
Hain, C. H., 644
Haines, F. M., 174
F. S., 548, 562
R. W., 201
Hainsworth, C. H., 298
G., 97
Hajela, K. S., 760
Hakim, K. A, 783
Halberstaedter, L., 814
Halbus, F. W., 560
Haldane, J. B S., 25, 28, 140
Haldar, A. L., 718
K. P., 808
Hale, G. C., 574
R. W., 407
Haleem, A B. A., 713, 714
Hales, A. L., 694
R. B., 346
Halifax, Viscount, 247
Halim, A., 714
Halket, A. C, 191
E. C., 174
Hall, A. A., 88, 93
A. P, 398
A. S., 114
Sir D., 91, 225, 228
E. B, 150
F., 237
G., 89
G. E., 556
I. K., 289
I. S., 374
N. F., 148
N. M, 504
P., 48, 57
R. E., 346
R. L., 252, 266, xxvi
T. Roy, 460
Hallam, A. R., 299
Hallamore, J., 461
Hallett, H. F., 152
Halliday, A. M., 678
E. C., 694
F. L., 229
F. W., 328
I. G., 672
W. R., 150
Halloran, J. H., 296
Halls, H G., 185
Hallsworth, E. G., 99
Hallward, B L, 45, 58
Hally, G. H., 555
Haloun, G. 52
Halstead S, 660
Halvorsen, H. B., 626
Halward, L., 29
Ham, A. J., 111
A. W., 547
Hamblin, H. J, 255
Hambly, A. N., 604
Hamel, A., 478, 531
E., 477
G., 516
O., 478
P., 479
Hamell, Rev. P. J., 421
Hamer, D., 296
H. S., 523
Hamid, Abdul, 788
M. A., 757
M. Abdul, 709
Md. A., 765
Hamidullah, M., 783
Hamill, P., 211
Hamilton, A., 113
C. J. K., 116
C. K. J, 204
D. E., 549
G. F, 357
G. H, 221
Miss G. H., 346
H., 359
I. A., 590
J., 522
J. G. M., 372
K., 452
K. T., 593
K. W., 225
L. H., 492
R. W., 449
W. D., 428
W. J., 202
W. S., 454
Hamilton-Thompson, B. M., 82, 83
Hamley, H. R., 158
Hamlyn-Harris, R., 605
Hamman, E. M., 683
Hammick, D. Ll., 248, 260, 264
Hammond, J., 55
H. R., 616
M., 20
N. G. L., 45, 54
T. E., 333
Hampshire, S. N., 257, 265
T. R., 409
Hampson, A. C., 206
G. C., 296
H., 240
Hampton, H. V., 736
Hamson, C. J., 51, 62
Han, Ba, 808
Hanan, Hon. J. A., 630
F. M., 634
Hanbury, H. G., 253, 261, 264
Hancock, A., 239

Hancock, J. E. M., 552
W., 22
W. C , 167
W. K., 21
Hancox, N. M., 114
Handcock, W. D., 336
Handfield-Jones, R. M., 213
Handford, C., 239
S. A., 151
Handiqui, K. K., 745
Hanify, C. P., 605
Hankey, G. T., 215
Hanley, J. A., 88
Hanna, J., 420
Hannah, B , 557
J. B., 83, 84
Hannay, R. K., 369
Hannon, Rev. J. J , 421
T. D., 590
Hansen, C., 671
P. H., 349
Hanson, D , 22, 24
Rev. Preb. R., 152, 154, 199
Hanson-Lowe, J. B., 178
Hansotia, P. C., 736
Hanton, W. A., 240
Happold, F. C., 98
Haq, Abdul, 783
Abdul, B.Litt., 783
S. M. M., 794
Harbeson, A. E., 532
Harbison, J. A., 416
Harbord, R. P., 115
Hardie, C. G., 262
M., 326
W. F. R , 252, 259
Hardikar, S. W., 784
Harding, F. J. A., 782
D. W., 114, 183
H. E., 299
Hardisty, R. H. M., 489
Hardman, H., 104
Rev. O., 155, 199
T. G., 416
Hardwick, F G., 622
Hardy, E., 184
E. A., 543
F., 834
G. F., 86
G. H., 48, 62
R. McD., 452
W. G., 450
Hare, A. E. C., 327
C. L., 357
F. A., 550
Hareubeni, E., 814
Hargreaves, A D., 22
E. L., 264
J., 294
M. B., 804
R., 113
Haridas, G., 829
Harington, C. R., 210
Harker, A., 59
G. F. H., 324
Harkness, H. W., 534
W. J. K., 548
Harlech, Lord, 186
Harley, R. B., 403
Harley, T. F., 366
Harling, R. T., 827
Harlow, F. J., 228
V. T., 152
Harmer, F. E., 232
L. C., 46
Harnett, E., 424
Harper, D. R., 659
J., 387
J. C., 169
M. H., 617
N D., 598
W. F., 202
W. R , 33
Harries, D. J , 333
G. E , 331
Harrington, A. W., 387
E. L., 543
J. B., 543
Harris, C. F , 204, 219
D. T., 211
G H., 462
G. Montagu, 252
H. A., 350
H. A., D.Sc., 42, 60
J. Allen, 459
J. E., 50
K. E , 206
R , 618
R I., 558
R. K., 613
T. F. W., 677
T. M., 288
W. J., 633
Harrison, A. R. W., 263
A. S., 158
B., 832
C. V., 117
D., 298
D. C., 405
E , 42, 61
E., C.M.G., 834
F. Ll., 536
G. A., 210
G. B., 151, 152, 156
G. E., 23
H., 52
H. H., 88
J. V., 250
J. W. H., 85
K. P., 57
L., 669
R. M., 184
W., 265
W. E. C., 534
W. J., 54
W. N. L., 606
Harrod, H. R. F., 259
Harrop, A. J., 630, xxvi, xxviii
Harrower, M., 489
Harry, E. Ll., 313
H. T., 346
N. E., 331
Hart, B., 181, 207
C. A , 141, 144
C. W. M., 501, 547
E. G., D S.O., 187
Rev. H. St. J., 45, 59
K. R. M., 616
Hart, N. C., 572
S., 500
S. S., 523
W. O., 253, 267
Hart-Synnot, R. V. O., 266
Hartfall, S. J., 100
Hartford, Rev. R. R., 414, 416
Hartley, E. G. J., 248
G. S., 140
Sir H. B., 257
M., 270
P., 204
Hartree, D. R., 234, 242
Hartridge, H., 211
Hartshorne, J. F. B , 187
N. H., 316, 327
Hartung, E. J., 595
Hartwell, G. A., 198
Harvey, D. C., 466
F. E. E., 69
F. W., Canada, 498
Hon. H., 449
J., 169
J. D. M., 145
J. W., 98, 320
L. A., 336
S. C., 688
T. E., 18
Rev. W., 63
W. B , 573
Harwood, H. F., 167
J., 306
S. D. F., 184
Hasan, C., 714
M., 750
S., 717
S. A., 730
S. A. H., 776
Sarwar, 755
Sd., 794
Sd. H , 714, 762
Sd. J., 783
Sd. M., 714
Sd. Z., 714
Haslam, A. L., 639
N. H., 543
Haslam-Jones, U. S., 265
Haslewood, G. A. D., 202
Hassall, Rev. H., 239
Hassan, S., 749
S. A. H., 777
Hassé, H. R., 32
Hastings, S., 205
Haswell, S. V., 91
Hatcher, A. G., 470, 847
W. H., 485
Hatley, A. J., 169
Hatt, H. H., 596
Hattersley, A. F., 673
Hattingh, J. M., 675, 676
Hatto, A. T., 175
Hatton, R. G., 225, 227
Haughton, W. S., 416
Haultain, Sir F. W. G., 541
H. E. T., 567
W. F. T., 374
Hauser, H. B., 597
Havelock, E. A., 549
T. H., 85, 87

Havenhand, D., 298
Haverstock, A. B , 469, 470
Hawes, R. B , 829
Hawgood, J. A , 21
Hawken, R. W. H , 606
Hawker, L. E., 166
Hawkes, C. J., 86
J. H., 240
L., 192
Hawkins, H. L., 289, 292
Hawksley, J. C., 206
Hawley, J. E., 534
Haworth, R. A. L., 86
R. D., 86
P., 678
W. N., 19
Hawthorn, C. M., 93
Hawthorne, J. R., 405
Hawtrey, R. G., 75
Hay, D , 298
J. C., 114
J. M., 398
R., 393, 394
W. D., 535
Haycocks, N., 231
Haycraft, J. B., 333
Hayden, H. A., 225
J. G. E., 600
Haydock, G. H., 384
Haydon, E. M. E., 191
Hayens, K. C., 399
Hayes, F. R., 465
H L., 528
M., 424
R. A., 51, 62
S. N., 791
St. C. J., 827
Haylett, D. G , 683
Hayman, W. G , 627
Hayward, N. J., 599
Haywood, M. C , 83
W., 20
Hazel, A. E. W., 247, 261
Hazeltine, H. D., 51, 55
Hazen, Sir D., 526
Head, Most Rev. F. W., 55
M., 83
R , 369
R. K., 184
Headicar, B. M., 142
Headlam, Rt. Rev. A. C., 257
Headlam-Morley, A., 271
Headridge, W., 238
Heald, Sir B. H., xxvi,
H R., 300
Healy, D. McN., 451
J. G , 429
Heaney, J. F. Strong, 118
Heap, G. V. M., 335
H., 237
Heard, A., 323
J. F., 498, 548
R. D. H., 467
Rev. R. G., 58
Hearnshaw, Prof., 40, 338
L. S., 644
Heath, A. E., 328
Heathcote, R. St. A., 331
Heather, J. C., 25
Heaton, T. B., 259
Heavey, M M., 432
Heawood, P. J., 79, 82
Hebb, D. O., 490
H. D., 469
T. C., 464
Hébert, Abbé E., 520
Very Rev. J., 527
Hector, F. J., 34
J. M , 683
Hedges, R. Y , 606
Hedman, T , 551
Heeney, A. D. P., 498
Heese, J. de V., 687
K. W., 688
Heggie, J. F., 388
R. M., 332
Heggs, G. B. M., 203
Heilbron, I. M., 167, 246
Heilbronn, H. A., 62
Heimann, B., 187, 188
H. L., 696
Heimpel, L. G., 492
Heine, E. M., 638
H. G., 644
Heinze, B. T., 598, 603
Heinzelmann, J. H , 504
Heisenberg, Prof., 245
Heiser, Rev. F. B , 119
Hele, T. S , 55
Hellier, F. F., 100
Helmsley, F. R. W., 95
Helsby, L. N., 81
Helweg, J. H., 144
Hely-Hutchinson, V., 22
Hemingway, A., 98
J. E., 97
Hemmeon, J. C., 485
Hendel, C. W., 487
Henderson, A., 368
A., B.Sc., 383
A. G., 639
A. M., 246
A. T., 489
C. H , 615
D. K., 373
E. J. A., 143
F. Y., 166, 224
G., 400
G. B., 384
G. D., 360
G. H., 466
G. P , 399
H. C. K., 176
H. D., 257
H. L., 263
J., 152
J. J. C., 386
J. L., 372
J. M., 359
J. M. A., 226
Rev. M., 608
M. I., 270
N., 90
R. C., 371
V. E., 558
V. L., 556
W. R., 102
Hendrick, J., 360, 362
Hendrie, D. S., 99
Hendrikz, P. A., 677
Hendrikz, W. de S., 692
Hendry, A. W., 361
C. B., 124
J., 388
Hendy, P , 97
P. A., 248
Henel, H., 534
Henley, P., 429
W. E , 267
Henn, T. R , 46, 59
Hennelly, T. J., 332
Henney, E , 37
Hennigar, G. A., 469, 470
Henning, I., 614
M. W., 684
W., 187
Hennings, A E., 462
Henry, A. K., 213
A. W., 451
C., 485
C. B., 215
C. K. P., 491
D. C., 230, 234
D. M., 289
G. L. F., 371
G M., 500
J. A., 638
J. M., 412
K. M., 290
L., 114
M , 615
N. F. M., 48
R. F. J., 413, 415
R. M., 246, 398, 411
T. H., 96
W., 392
Hensel, P. H., 572
Henson, H., 98
Hentschel, C. C., 227
E C., 141
Hentze, M., 615
Hepburn, H. H., 453
J., 557
Herapath, C. E. K., 34
Heras, H., 736
Herbert, A. P., 18
D. A., 605
F. K., 89
J. B. M., 230
S., 312
S. G., 507
W. E., 215
Herbstritt, K., 368
Hercus, C. E., 634
E. O., 598
Herd, S. B., 116
Herdman, E., 193
E. C., 114
Herford, G V. B., 170
Herissen, C. D., 659
Herklots, G. A. C., 803
Herlekar, M. N., 718
Herman, W. S., 215
Hermitte, L. C. D., 299, 300
Herring, A. J., 401
P. T., 400, 402, 403
Herriott, G. H., 504
J. S., 492
Hersel, A. W., 588
Hertz, Dr., 816

Hertzfeld, G., 372
Hervey, A. C. C., 791
Herzberg, G. 543
Hesketh-Williams, P. K , 271
Hesling, E., 233
Heslop, A., 85
Hess, E., 466
Hessing, E. C., 745
Hetherington, Sir H. J. W., 382, xxv, xxviii
Hetzel, K. S., 589
Hewat, A. F., 374
Hewer, A. R., 623
E. E., 211
H. R , 170
Hewer, T. F., 34, 123
Hewetson, H. W , 451
Hewison, N. V., 184
Hewitson, W. A., 90
Hewitt, F. J., 678
J., 388
J. A., 153
N. M., 767
R. M., 340, 344
Hewson, G. H. P., 414, 418
W., 522
Hey, D. H., 167
W. H., 237
Heydorn, M. H. G., 112
Heymann, E., 596
S. C., 696
Heymans, C., 365, 380
Heywood, H., 166
Rev. H. C. L., 45, 56
Heyworth-Dunne, J., 186
Hibberd, G., 394
Hibbert, E., 239
H., 485
Hibgame, D. M., 104
Hibon, R., 46
Hichens, W. L., 176
Hickey, D., 229
Hickinbottom, W. J., 20
Hickling, H. G. A., 86
R. A., 206
Hickman, V. V., 623
Hicks, Sir C. S., 589, 591
J. R., 76, 231
R. K., 550
W. C. R., 231
Hickson, G. F., 74
P., 319
W. S. E., 413
Hidayatullah, Md., 776
Hiebert, P. G., 503
Higginbottom, S., 719
Higgins, A. L., 174
E. M., 642
M. H., 180
M. J., 433
R., 328
T. S., 661
Higgs, S. L., 209
Higham, J., 232
T. F., 250, 266
Hight, J., 630, 638
Highton, H. E. R., 86, 91
Hignett, C., 250, 260
Hilditch, T. P., 110
Hildyard, M. C., 176
Hiley, R. M., 332
Hill, A., 360
A. B., 204
A. V., 143
C., 326
C. E., 557
Doris W., 87
D. U., 446
E. F., 235
E. M., 50
F. T., 166
G. T. R., 127, 144
H., 327
H. H., 428
I. G. W., 372, 373
J. E. C., 258
J. L., 794
J. P., 148
R. A., 803
R. M. T., 196
T. G., 140
W. C. O., 822, 824
W. H., 336, 337
Hillborn, H. W., 447
Hillhouse, P. A., 385
Hillman, O. H., 809
Hills, C., 522
E. S., 597
W., 623
Hilton, J., 47
R., 206
R. J., 493
Hiltz, M. C., 506
Himsworth, H. T., 206
Himus, G. W., 167
Hinde, G., 83
Rev. Preb. H. W., 200
Hindle, E., 386
Hindmarsh, E. M., 622
L. K., 283
T. A., 90
Hindshaw, W., 246
Hine, M. L., 209
Hines, H. J. G., 605
Hingorani, K. L., 709
Hingston, D. A., 517
Hinkel, L. E., 327
Hinks, D. A. G., 62
Hinshelwood, C. N., 248, 260
Hinton, A., 226
Hipsley, P. L., 618
Hird, R. B., 24
Hiriyanmaiya, S., 772
Hirst, D. M., 169
E. L., 30
F., 36
F. C., 338
H., 598
M. E., 20
Hiscock, E. R., 290
Hitch, C. J., 265
Hitchcock, E. V., 141
H. B., 574
Hitchens, A. P., 115
Hitchins, W. W., 290
Hivale, B. P., 736
Hla, Tin D., 810
Hoare, A. D. M., 43
F. E., 336
Sir S., 288
Hobbs, A. F., 590
Hobhouse, E. W. N., 206
Hobson, A. D., 87
Hochschild, G., 659
Hocking, W. E., 389
Hockley, A. R , 346
Hodge, E. H. V., 743
G. E , 490
W. V. D., 43, 58
Hodges, D. B., 673
H. A , 289
Hodgins, L. C. A , 550
S. R. N., 493
Hodgkin, A. L., 49, 62
Mrs. D. M , 270
R. H., 265
Hodgkins, Rev. W., 231
Hodgkinson, J., 261
Hodgson, A. E., 116
C. A., 616
H. K. G., 212
Rev. L., 256, 259
N., 90
P., 84
R. A., 345
S., 235
Hodsman, H. J., 103
Hodson, W. E. H , 291
Hoepffner, E., 256
Hoernle, R. F. A., 694
Hoey, A. S , 258
Hoffenberg, S N., 695
Hofmeyr, A. S., 688
J. H., 692
J. I., 687
Hogan, J., 429
J. E., 416
J. J., 424
M. A., 423
W. V , 470
Hogben, L., 359
Hogbin, F. R., 35
H. I. P., 613
Hoge, J., 688
Hogg, A. H. A., 86
F. S., 548
Hon. Q. McG., 257
Holcroft, C., 119
Holden, H. S., 339
J. H., 485
Holdsworth, F., 306, 340
R. L., 791
R. W. G., 267
Sir W. S., 28, 253, 257
Hole, D. R., 291
Holford, W. G., 111, 411
Holland, A. J., 298
C. C., 638
C. W., 465, 468
E., 208
Rev. J. S., 508
Sir T. H., 366, xxv, xxviii
W. G., 320
Hollenberg, A., 506
Hollens, W. R. A., 191
Holley, N. M., 345
Hollick, F. S. J., 50, 60
Holliday, R., 37
Hollings, M. R., 102

Hollingworth, J., 240
Hollinrake, H., 642
Hollis, Rev. F. J., 152, 199
T., 103
Hollond, H. A., 51, 61
Mrs., 45, 63
Holloway, E. S., 617
Rev. J. E., 633
Holman, B. W., 169
F. M. H., 104
W. L., 557
Holme, E. R., 614
Holmes, A., 82
A. H., 236
E. G., 44, 55, 63
G., 100
G. M., 206
J. G., 606
Rev. J. H. A., 474
J. McD., 614
S., 33
Holmes à Court, A. W., 617
Holroyd, J., 237
M., 258
Holt, G. E., 551
J. K., 238
L. W., 641
W. G., 617
Home, B. F., 829
M., 457
Honan, B. F., 430
Hone, F. R., 589, 593
Honey, M. E. D., 194
Honeyman, A. M., 399
Hong-Kong, Gov. of, 803
Honikman, B., 188
Hood, F. C., 82
E. E., 474
G. G., 506
Hoogstraten, J., 504
Hook, A. S., 613
Hooke, S. H., 199
Hookins, D. I., 20
Hoole, A. J., 607
Hooper, A. G., 693
F. H., 591
F. W., 119
K., 215
P. D., 591
Hoover, A. A., 823
Hope, C. W. M., 205
E., 248, 262
E. C., 543
G. J., 454
J., 367
R. S., 673
Hope-Jones, A., 47, 54
Hopewell, H. G., 649
Hopkin, D. W., 168
Hopkins, B. H., 535
D. P., 607
E. R., 524
Sir F. G., 43, 61
H. O., 829
P., 144
R. E., 595
R. H., 22
W., 82
Hopper, C. R., 504
I. V., 393
Hopper, R. J., 312
Hopwood, D. P., 669
F. L., 211
Horan, Rev. B. W., 561
F., 539
J. P., 600
Horgan, Rev. J., 424
Horn, D. B., 369
Horne, A. R., 375
E. A., 101
G. F. T., 176
Horning, W. A., 808
Horrox, W. L., 335
Horsfall, F. L., 498
Hort, G., 601
Horton, F., 194
W., 110
Horwood, F. C., 269
Hosain, M. A., 794
Hosford, J. P., 213
Hosgood, B., 192
Hosie, R. C., 550, 563
Hoskin, H. A., 558
T. J., 206
Hosking, J. S., 591
Hossack, F. A., 698
J. C., 506
Hossain, S. M., 750
Hotten, W. I. T., 617
Hough, G. G., 832
Houghton, D. H., 677
E., 238
Rev. R. E. C., 264, 269
Houle, L., 518
Houpert, J. A., 550
House, H. W., 264, 265
Houston, A. H. J., 224
J., 407
R. A., 385
S. W., 537
How, E. A., 187, 189
Howard, C. H. D., 152
Sir H. F., 60
J. V., 168
R. J., 213
S. C., 339, 343
Howard de Walden, Lord, 317
Howarth, A., 240
F., 166
L., 48, 57
R. G., 614
W. G., 205
W. O., 230
Howat, D. D., 394
Howden, M. P., 113
Howe, C. D., 550
G. W. O., 386, 390
J. E., 504
Howell, C. M. H., 206, 208
H. G., 347
J. P., 313
O. R., 239
W. B., 498
Howells, D. V., 390
Rev. G., 324
H. N., 226
L., 331, 332
Howes, E. A., 451
F. S., 488
N. H., 144
Howgrave-Graham, R. R., 225, 226
Howie, J. W., 605
J. W., M.D., 360
W. D., 692
Howitt, J. E., 561
Howland, G. W., 556
R. L., 45, 60
Howlett, D. M., 37
Hoxey, S. C., 660
Hoy, A., 596
Hoyle, A. C., 249
J. C., 206
Hrennikoff, A., 460
Hübener, G., 522, 524
Hubble, G. D., 591
Huckell, R. G., 449, 453
Huddleston, Sir A. J. C., 393, xxvii
Hudleston, L. J., 311
Hudon, L.-E., 478
Hudson, A. C., 209
A. W., 648, 649
C. E., 99
E. R., 646
G., 479
G. F., 257
J. F., 104
M. O., 498
M. W. P., 201
R. G. S., 97
R. V., 213
Hudson-Williams, A., 312
H. Ll., 111
T., 317
Huggett, A. St. G. J. McC., 211
E., 23
Huggins, K. H., 384
M. W., 533
Hugh, M. M., 743
Hugh-Jones, E. M., 268, 269
Hughes, A. M. D., 21
E., 233
E. C., Canada, 498
E. D., 140
E. E., 237
E. E., Wales, 40, 328
Rev. E. R., 254
F. W., 574
G. K., 614
G. P., 314
H., 109
Rev. H. H., 307
H. V., 114
J., 295
J., McGill, 485
J. D. I., 97, 104
J. E., 590
J. S., 248
Rev. J. W., 307, 318
K. R., 409
L. E., 321
L. E. C., 168
N. C., 407
T. H., 393
W., 451
W. M., 395
Hughesdon, J. J. E., 173
Hugill, W. M., 504, 512

Hugo, C. F., 681
F. D., 672
T. J., 682, 683
Hugon, M. C. G., 271
Hull, E. R., 236
J., 300
R., 461
Hulme, H. R., 56, 124
Hume, J., 95
J. B , 213
R. E., 286
W. E., 89
Hume-Rothery, W., 248, 262
Hummel, F. H., 411
Humphrey, G., 534, 536
J. P., 488
Humphreys, A. R., 112
G. A., 317
H. F., 24
H. L., 550
R. A., 142, 153
S. M., 332
Humphries, E. C , 834
J. E., 357
Humphry, R. H., 226
Hunt, A. P., 295
D. W. S., 262
H. A. K., 596
H. J., 250, 260, 261, 268
H. K., 808
I. V., 184
J. L., 184
R. W., 113
T. C., 206
Rev. T. H., 474
W. P., 230
Hunten, K. W., 572
Hunter, A., 557
A. C., 827
Mrs. A. C., 827
A. M., 388, 389
Rev. A. M., 375
B. M., 698
D., 206
G., 449
H., 73
H., M.B., 617
J. B., 213, 217
J. H., 401
R. H., 405, 411
S. F., 633
T. A., 630, 644
T. G., 22
W., 89
W., B.Sc., 240
W., Scot., 394
W. M., 408
W. P., 363
Huntingford, G. W. B., 186
Huntington, A. M., 271
Huntsman, A. G., 548
E., 339
Huq, F., 765
Hurd, R. J. W., 127, 226
W. B., 501
Hurlburt, C. W., 452
Hurley, L. E., 600
T. E. V., 600, 603
T. J., 768
Hurnard, N. D., 270
Huron, Bishop of, 575
Hurst, Sir A. F., 206, 208
C., 261
E. W , 589
H. N., 688
R., 638
R. O., 562
Hurstfield, J., 346
Husain, I., 714
K., 784
K. M., 714
M., 751
M. A., M.Sc., 789
M. M. S., 784
Q. M., 782, 783
S., 782
S. A., 760
Sd. A., 782
Sd. E., 759
S. J., 783
S. Md., 759
Sd. M , 784
Sd. M., M.Sc., 779
T., 713
Husami, Q Sd. K., 783
Husband, Jeanie, 230
Husbands, H. W., 141
Huskins, C. L , 486
Hussain, M., 777
Q., 765
Hussey, J. M., 233, 238
Hutcheon, N. B., 544
Hutcheson, J., 402
Hutchings, G., 318
Hutchins, W. N., 448
Hutchinson, A., 76
A. H., 459
Rev. F. E., 246
G. E., 91
G. T., 259
H. P., 36
M., 598
R. L., 649
S. A., 30
Hutchison, D. M., 382
H. E., 401, 403
Hutt, W. H., 658
Hutton, A. J., 389
C. W., 110
E. S., 598
J. H., 43, 59
R., 150
R. S., 48, 54
Huyck, P. H., 535
Hydari, Sir A., 782
Hyde, F. E., 111
H. A., 322
S., 145
Hyder, A. A., 713
L. K., 713
Hyderabad, Nizam of, 782
Hynd, A., 400
Hynes, Rt. Rev. J., 421, 432
W., 300
Hyslop, J. M., 384
Hyzler, J., 801

Ibbs, T. L., 22
Ibraham, M., 714
M. M., 791
Ibraham, Syed, 783
Icely, H E. McL., 249
Ickeringill, W. J., 219
Ide, F. P., 548
Ignatieff, V., 451
Iles, A. E., 34
G. D., 102
Iliffe, M. I. G., 588
Illing, V. C., 169
Illingworth, C. F. W., 374
Immelman, M. N. S , 682
Imms, A. D., 46
Impey, R. L., 661
Imrie, C. G., 297, 299
Inagaki, M., 598
Ince, E. L., 369
F. E., 192
India, Gov.-Gen. of, 713, 717, 726, 730, 750, 754, 763, 776, 787, 807
Viceroy of, 818
Inebnit, J. P., 97
Infeld, L., 552
Ing, H. R., 143
Ingalls, R. A., 522
Inge, Very Rev. W. R., 149
Ingham, A. E., 48, 57
J., 331
Inglis, C. E., 51, 57
Rev. G. J., 304
W. B., 383
W. K., 618
Ingold, C. K., 140, 320
Ingraham, Mrs. M. K., 446, 447
Ingram, E. G., 151
H. V., 89
J., 413
J. T., 100
W. J., 83
Ings, H. J., 347
Inkster, R. G., 413, 415
Inman, H. J., 188
M. K., 573
Innes, D. E , 399
H. McL., 61
Rev. H. S. R., 605, 608
Innis, H. A., 554
Inskip, D. P., 659
Sir T., 196
Ioan-Jones, D., 333
Iqbal, M. Md., 788
Sir M., 793
Iredale, T., 614
Ireton, H. J. C., 553
Irons, E. J., 175
Ironside, Sir E., 137
Irvine, E. C., 493
G. H., 809
Sir J. C., 397, xxv
Irving, H. M. N. H., 268
J., 104
J. A., 461
J. T., 359
L., 374
Irwin, C. G., 89
D. A., 556
J. W. S., 405
L., 595
Rev. O. A. C., 81, 83

Isaacs, J., 151, 156, 817
R. G., 327
Mrs., 158
Isemonger, N. E., 187
Ishaq, K. M., 714
Ishaque, S. M., 714
Isherwood, R., 114
Isles, K. S., 587
Israel, G. C., 623
Israels, M. C. G., 235
Israelstram, S. S., 693
Isserlin, B., 34
Itty, S., 757
Iveagh, Earl of, 412
Ivens, Rev. W. G., 188
Iverach, J. A. D., 635
Ives, D. J. G., 176
Iyengar, K. S. K., 772
Iyer, B. H., 818
K. A. S., 758, 759
K. S. S., 778

Jack, A. A., 365
D., 399
D. T., 79, 86
J., 83
J. C., 390
R., 634
Jackett, W. R., 542
Jackman, Mrs. A., 198
W., 554
W. A., 35
Jacks, M. L., 249
Jackson, A., 326
A., B.Sc., 533
C., 684
D. A., 253
E. G. T., 168
F. W., 507
H., 234
H. G., 177
H. S., 240
H. S., Ph D., 548
J., 236
J. E. M., 339
J. L., 541
J. M., 196
J. T., 413
K., 370
K. B., 556
K. H., 44, 60, 382
L. C., 32
L. H., 318
R., 404
R. M., 51
S. P., 693
V. W., 505
W., 232
W. S., 698
Jacob, E. F., 233, 242, 257
G., 778
M. G., 615
Jacobs, H. N., 41
S. E., 166, 224
Jacobsthal, P., 248, 259
Jacoby, F., 23
Jacques, W. A., 648, 649
Jaegar, J. C., 623
Jafari, M. O., 783
Mrs., 785
Jagadisau, T. N., 726
Jagurdar, P. J., 779
Jaidka, R. C., 807
Jain, H. L., 777, 779
K., 776
L. C., 788
R. S., 731
Jaitly, A., 731
Jakatdar, Y. V., 776
Jalil, S. A., 708
Jambuserwala, G. B., 734
James, A. L., 335
B. C. L., 20, 21
D. G., 323
Rev. E. O., 98
F. W., 607
G. W. B., 207
H. E. O., 234
J., 215
J. A., 34
J. W., 168
Jenkin, 307
N., 505
R. I., 32
R. L., 646
R. W., 660
T. C., 311
W. O., 248, 264
W. W., 215
Jameson, A. K., 153
Miss Storm, 107
Sir W. W., 204, 217
Jamieson, C. V., 453
E. B., 366
H. C., 452
J. D. H., 372
J. K., 413, 415
J. M., 454
M. C., 505
M. M., 191
R. E., 487
Jan, C. N., 762
S. A., 754
Janaki, Mrs. B., 731
Jane, F. W., 140
Janelle, P., 107, 123, 245
Janse, A. J. T., 683
Jansen van Rensburg, J. A., 688
Jansz, Rev. P. L., 820
Jardine, F. E., 366, 373
Jarmain, J. R., 231
Jarman, T. L., 31
R., 504
Jarry, J. A., 517
Jarvis, A. P., 20
Jary, S. G., 184
Jasmin, D., 513, 514
Abbé H., 514
Jasper, H., 498
Jathar, G. B., 735
S. B., 735
Jatkar, S. K. K., 818
Jay, Rev. E. G., 199
H. M., 589
Jayaram, C., 797
Jayasuriya, H. H. F., 823, 824
Jayawardena, S. F., 823, 824
Jeaffreson, B. L., 100
J. W., 141
Jean, F. X., 476, 481
Jeanneret, F. C. A., 550
Jebb, G. E. M., 191, 192
Jebson, W. N., 641
Jeffcoate, T. N. A., 116
Jefferson, D. W., 97
G., 229
Jeffery, G. B., 127, 142
Jeffrey, A. G., 99
G. H., 349
R. L., 447
Jeffreys, H., 47, 59, 107
M. V. C., 158
Jehu, R. M., 673
T. J., 369
Jembunathan, S., 207
Jemmet, D. M., 533
Jenkin, E. H., 37
H. E., 573
P. M., 33
T. J., 314
Jenkin-Jones, C. M., 231
Jenkins, Rev. C., 156, 255, 259
E., 319
E. D. T., 312
E. M., 326
H., 693
H. J. S., 263
J., 306
J. A., 635
J. H., 461
J. R. W., 313, 314
J. T., 113, 313
R. B. M., 297
Rev. R. G. F., 416
R. J. H., 45
R. T., 307, 318
W., 346
Jenkinson, A. J., 231
H., 75, 152
Jennet, A., 678
Jennings, I., 498
R. Y., 223
V. C., 597, 603
W. I., 223, 460, 472
Jensen, A. E., 695
T. M., 648
Jeppe, C. W. B., 695
Jepps, M. W., 386
Jepson, G. L., 574
W. F., 826
Jeremy, H. R., 209
Jermyn, P. V., 555
Jerram, M. R. K., 317
Jervis, J. G., 462
J. J., 101
W. W., 31, 38
Jessop, H. T., 142
Jevons, W., 170
Jewitt, A. R., 466
Jewkes, J., 231, 242
Jeypore, Maharajah of, 721
Jéze, G., 137, 182
Jha, A., 717
A. N., 717
Jhaveri, T. N., 737
Jhingran, A. G., 731
Jiménez, A., 253
Jinks, D. P., 289
Jivanniarao, P. S., 768

Joachim, H. H., 287
Joad, C. E. M , 177
Joag, K. V., 738
Jobberns, G , 638
Jobin, J.-B., 480
Joe, A., 372
Joel, I., 816
Jogarao, Ch. V., 722
Joglekar, N. M., 777
John, A , 777
C. C., 797
D., 320
V. S., 809
W. J., 174
Johns, A. E., 500
B. M., 829
E. P , 574
W. H., 450
Johnson, A , 237
A., A.T.I , 342
A., F.R.S.I., 230, 240
A. C , 332
A. H., 645
A. N., 808
A. R., 308, 324
B. K., 170
C. H., 20
C. J., 694
F., 504
G., 91
G., Canada, 491
H. G. L., 102
J. H , 558
J., N.Z., 639
L. G., 104
L. N., 144
L. R., 99
M. C., 23
M. L., 23
P., 252, 262
R. C., 601
S., 504
Miss S , 759
W., 116, 117
Johnston, A. H., 452
A. H., Ph.D., 573
Rev. A. J., 571
E. H , 255, 258
J., 412, 413, 420
J. M., 402
K. P., 534
R. C., 250
S. F. H., 312
S. R., 469
T. B., 202
T. H., 589
T. K , 79, 87
Johnstone, A. H., 641
H., 194
J. H. L., 465, 467
K. I., 101
R. W., 372, 374
Joll, C. A., 213
Jolles, T , 316
Jolliffe, J. E. A., 250, 268
M. F., 317
N. C., 63
Jolly, A. L., 185
R. A., 358
Jolowicz, H. F., 146, 223
Joncas, P., 478
Jones, A., 177
A., B.Sc., 231
A. E., 319
A. H. M., 257
A. J., 238
A. K. I., 215
A. Powell, 99
B., 324
B., Ph.D., 296
B. M., 51, 55
B. Mouat, 95, 246, xxv
C. C., 525
C. E. W , 818
C. M., 504
C. M., M.D., 465
Sir C. S , 109
Daniel, 143, 147
D. C., Ph.D., 174
D. Caradog, 114
Doris C., 112
D. J., 307, 318
D. J. G., 313, 329
D. M., 260
Rev. D. Morris, 307
E., 206
E. G., 117
E. H., 317
E. I., 203
E. J , 319, 323
E. O., 233
E. R. H., 167
Eric, 232
E. T., 314
E. Taylor, 385
E. Wyn, 116
F., 225
F. H. M., 467
F. L., 328
F. M., 627
F. Wood, 229
G., 311, 323
Rev. G. B., 457
G. E., 834
G. L., 329
G. M., 560
G. P., 296, 305
H., 41, 169
H. I., 318
H. S., 256
H. Trefor, 99
H. Wallace, 116
I , 327
I. C , 313
J., 332
Rev. J , 308
J. C., 325
J. D., 296
J. H., 96
J. H., Ph.D., 327
J. K. N., 31
J. Ll., 425
J. M., 56
J. M., Wales, 311
Rev. J. Morgan, 307, 318
J. O., 36
J. R., 312
J. R. E., 313
J. T., 313
J. T., M.A., 450
Jones, J. W., 22
J. W., Oxford, 253, 265
L. G. E., 249
Ll. I., 314
Ll. Rodwell, 180
M. E., 326
M. G., 47, 63
M. Wheatly, 229
O. T., 46, 54, 246
P. M., 317
R., 679
R. A., 151
R. E., 23
R. F., 512
R. H., 114
S. B., 551
S. G., 382
S. H., 569
S. J., 31
S. Rees, 161
T., 313
T. D , 47
T. D., Ph.D., 324
T. G., 91
T. G. H , 605
T. H., 561
Tudor J., 109
T. L., 562
T. P., 484
V., 328
W. A., 536
W. G., 525
W. H., 313
W. H. S., 45, 59
W. J., 322
W. N., 191
W. R., 168
W. R. D., 324
W. S , 308
Joos, M., 551
Jooste, M. E., 689
Joplin, G. A., 615
Jopson, N. B., 48, 60
Jordan, Mrs E. L., 759
R. C., 324
W. E., 76
W. R., 20
Jorissen, W. P., 137
Jory, P. J., 205
Jose, I. B., 590
Joseph, H. W. B., 263
M. R., 618
T. C., 777
Joshi, A. C., 731
C. N., 786
G. B., 731
G. N., 735
K. D., 771
K. G., 776
M. L., 788
R. H., 777
S. K., 731
S. L., 730
S. S., 731, 735
Joske, E., 601
Joubert, C. J., 689
D. B., 687
J. M., 687
L. de G., 516
Jourdan, Rev. G. V., 417

Joyce, R. D., 426
T. C., 298
Joyner, M S., 590
Joynt, T. A., 368
Judd, H. C., 347
Judges, A. V , 180
Juler, F. A., 209
Julien, G. O , 531
Jumeaux, C. V , 830
Jump, J. D , 232
Jung, C. G., 733
M. Y., 782
Junnarkar, P. B , 750
S. B., 737
Jury, G. S., 808, 809
Justice, Chief, Sierra Leone, 78
Jutras, L. J , 517

Ka, U., 808
Kadiresanchettiyar, M., 727
Kahali, B. S., 809
Kahn, R. F , 46, 57
Kahn-Freund, O., 223
Kaine Smith, S. C., 315
Kaji, H. L., 736
Kalapesi, A. S., 736
Kalbfleisch, H. K., 573
W., 492
Kaldor, N., 180
Kale, V. D., 777
Kallukaran, P. P., 764
Kamaiya, M., 723
Kamdar, K. H., 735
Kamen, A., 810
Kanal, P. V., 790
Kanapathipillai, K., 821
Kandasvamiyar, R., 727
Kandel, J. L., 817
Kandiah, A., 820
C., 822
Kane, A., 425
F., 425
Rev. G. L., 539
J. G., 734
Kannuluik, W. G., 598
Kantam, P. L., 721
Kantorowicz, H., 51
Kaplan, M., 814
Kapoor, G. P., 731
Kapp, R. O., 145, 146
Kappanna, A. N., 777
Kapre, P. K., 779
Kapur, A. N., 787
P. L., 787
R. K. D., 778
S. K., 791
Kar, K., 743
T. D., 743
Karagheusian, V. N. T., 597
Karamsingh, 779
Kardite, K. V., 737
Karfarma, N., 744
Karkoon, A. C , 741
Karmarkar, R. D , 738
Karn, M. N., 145
Karunakaramenon, K. P., 726
Karunaratne, W. A. E., 823, 824
Karve, D. D., 737
Karve, D G., 738
Karwal, G. D., 717
Kastner, L. J., 232
Katare, S. N., 778
Kathalay, D. W., 776
Kathirgamatamby, V., 822, 823
Katju, K. N., 731
Katz, S. M., 696, 697
Kaufmann, J., 489
Kaul, K. N., 756
R. N., 718
Kaulla, H., 627
Kaushic, A. R., 754
Kausikutty, C K., 754
Kay, A , 386
F. F., 290
F. W , 110
H. D., 290, 291
R. M., 641
Kaye, A. M., 37
G. A., 599
G. W., 229
M , 225
Kazi, I , 188
M. A., 735
Kazimi, Sd H. R., 794
Keane, J., 421, 423
Kearney, J. J., 430
Kearns, H. G. H., 36
Kearton, W. J., 115
Keating, G., 424, 425
Keats, R. R., 605
Keay, D. M., 401
H. L , 28
Kebby, C. H., 169
Kedar, T. J., 776
Keddie, C., 366
Keegan, R., 561
Keeley, T. C., 252, 265, 267
Keeling, D. C., 114
S. V., 143
Keen, B. A., 226
Keenan, E., 423
Keene, M., 390
Mrs. M. F. L., 202
Keeping, E. S., 450
Keet, B. B., 688
D. J., 682
P. W. J., 661
Keeton, G. W., 223
Keidan, I. J., 95
Keilin, D., 44, 58, 72
Keiller, A., 338
Keir, D. L., 267, 405
Hon. M. R. A., 832
Keirstead, B. S., 525
W. C., 525
Keith, A. B., 369, 370
C., 271
H. M., 489
Keizer, W. R., 215
Kelavkar, S. K., 737
Kelkar, K. H., 734
P. K., 818
Kellar, R. J., 208
Kellas, J., 744
Kellermann, F., 331
Kellock, J., 736
Kellog, C. E., 487
Kells, J. H., 140
Kelly, A. G., 362
A. J., 488
C., 429
C. D., 489
Rev. D., 601
D. F , 428
F. G., 447
J., 264
Rev. J. N. D., 280
R. E., 117
R. W. C., 830
S A., 124
T. H., 658
Kelso, J. A., 452
Kemmer, N., 169
Kemp, C. C., 638
C. L., 335, 337
H. R , 554
R. P., 116
Kempen, W., 687
Kench, J. E., 235
Kendal, L. P., 234
Kendall, A. W., 213, 217
E. W., 561
J. P., 367
O. D., 31
P. F. 376
Kenderdine, A., 541
G., 544
M., 526
Kendrew, W. G., 250, 269
Kendrick, T. D., 91
Kennard, F. E., 414
Kennaway, E. L., 210, 219
Kennedy, Rev. A. C., 359
A. M , 331
C. A., 567
C. D., 374
J. M., 299
K., 827
M. D., 64
R. S., 299
S. G., 432
W. P. McC., 552
Kenner, J., 239
Kennett, S. J., 115
Kennon, R., 117
Kenny, J. J. M., 578
Kenrick, F. B., 548
W. Byng, 19
Kent, A. M., 828
Rev. H. A., 535, 536
H.R.H. Duke of, 307
Kenyatta, J., 188
Kenyon, J., 224
K., 163
Keown, J. E., 386
Keppel-Jones, A. M., 694
Ker, A., 258
N. B., 708
Kerawala, S., 714
Kerkar, D. K., 738
Kerly, L. M., 143
Kermode, H. S., 124, 289
Kernahan, Mrs. P., 198
Kerr, I. W., 614
J. G., 18
J. M., 599
M. E., 461

Kerr, S. A., 385
T., 99
W., 394
W. A. R., 449
W. R., 407
Kerrich, J. E., 694
Kerridge, P. M. T., 143
Kerrin, J. C., 237
Kerry, W., 596
Kertland, M. P. H., 405
Kessell, S. L., 627
Kestelman, H., 142
Ketchum, J. D., 554
Ketelbey, D M., 399
Kettlewell, N. H., 35
Kevin, Rev. C., 421
Kewalramani, G. G., 737
M. K., 737
Key, A., 103
G. J., 661
Keyes, H. M., 258
M., 573
S. J., 536
Keynes, G. L., 213
J. M., 57
Keys, A. C , 644
D. A., 487
Keyter, J. de W., 670
Khairaz, F. G. R., 735
Khaleq, A., 743
Khaliq, A., 714
Khan, A. H., 783
Abdul Hamid, 783
A. R., 750
A. S., 794
F. K., 784
G. H. Dārāb, 188
H. H., 714
H. H. Ali, 784
H. Z., 714
H. Z. A., 714
M. A., 782
M. A. A., 785
M. E., 745
M. H. A., 782
M. M., 715
Mrs., 777
R., 787
R. A., 713
Sir S. A., 718
S. M. A., 765
Y. H., 782
Khanam, Mrs. R., 785
Khandekar, R. K., 737
Khanna, A. R., 788
K. L., 790
L. P., 807
R. R., 757
Khanolkar, V. R., 736
Khaparde, B. G., 730
Khastgir, S R., 751
Khatun, Mrs. N., 786
Khorana, M. L., 722
Khosla, B. N., 791
J. N., 788
Khote, H. D., 735
Khuda, M K., 743
Khusro, M. I., 714
Kiam, M., 803
Kiang, A. K., 832
Kibble, W. F., 765
Kichlu, Mrs , 731
P. K., 789
Kidd, Rev. B. J., 268
F., 72
Kidston, M. H., 397
Kiely, P., 430
Kiernan, V. G., 62
Kilburn, L. A., 558
Kilpatrick, Rev. G. G. D., 494
Kilroe, F. C., 671
L., 235
Kilvington, T. B., 289
Kim, Q. C., 804
Kimble, G. H. T., 598
King George VI., 19, 30, 95, 109, 125, 166, 176, 186, 229, 288, 295, 307, 405, 800, 803
King, A , 627
A., B.Sc., 167
A. M., 31
A. T., 103
B E., 51, 58
C. A., 542
C. S., 623, 625
E. J., 210
E. M. A., 296
F. E., 248, 258, 262
G., 804
H. J. S., 224
H. M., 462
H. S., 465
J. E., 233
J. T., 556
J. W., 678
J. W. H., 340
L. A. L., 389
L. C., 673
L. V., 487
P. E., 107
R., 335, 337
R. W., 317
W. B. R., 58, 141
W. H., 240
Mrs. W. O. R., 99
Kingdon, Rev. H. P., 260
Kingscote, A A., 562
Kingston, Rev. G. F., 553, 569
H. R., 573
S. H., 33
Kingwill, D. G , 678
Kinley, C. E., 469
Kinnear, J., 400
J. A., 567
J. S., 641
Kinsella, V. J., 613
Kinsey, B. B., 114
Kinvig, R. H , 21
Kipping, F. B., 44
Kiraly, A. K., 223
Kirby, M., 85
P. R., 694
Kirk, F. S , 299, 300
H. B., 644
J., 202
Rev. K. E., 123, 286
L. E., 543
Kirkaldy, J. F., 151
Kirkby, W. A., 298
Kirkland, A. A., 401
Kirkman, N. F., 124
Kirkpatrick, Very Rev. A. F., 61
F. H., 501, 556
H. W., 468
M. B. C., 391
R. M , 618
T. P. C., 415
Kirkwood, J , 389, 390
M. M., 550
W. A., 549
Kirwan, E. W. O'G., 743
Kirwood, A. E. M., 688
Kisch, H. A., 205
Kishore, J., 730
R., 754, 755, 756
Kissling, J. H , 648
Kitchen, H. D , 506
Kitchener, J. A., 167
Kitchin, D. H., 186
G., 368
Kitching, Rt. Rev. A. L., 186
J. A., 33, 41
Kitson, C. H., 226
Kitson Clark, G. S. R., 47, 61
Kittel, G., 75
Kittle, W. E., 606
Kitto, H. D. F., 383
Klapp, A., 289
Klausner, J., 815
Klein, O., 539
S., 815
Kletz, N., 236
Klibansky, R., 264
Kligler, I. J., 815
Klinck, L. S., 459
Knapp, F. M., 460
H. L., 37
Knaster, R. M. J., 708
Kneale, Mrs. M., 270
W. C., 260
Kneen, J. G., 693
Knight, A. H. J., 47, 62
A. R., 359
B., 695
C. M., 150
C. R., 641
F. H., 75, 137, 182
G. W., 550
Rev. H., 83
M., 110
Mrs., 359
R. C., 21
W., 338
W. F. J., 335, 337
Knights, L. C., 232
Knoop, D., 296
Knott, E., 413
F. A., 210
Knowles, D., 112
J. G., 118
N. R., 407
Knowles-Williams, G., 681
Knox, F. A., 532, 534
J., 383
J. A. C., 385
R. G., 561
R. S., 549
T. M., 399

Knox-Shaw, T., 42, 60
Kobrinsky, S., 507
Koch, A. C. E., 823, 824
F., 40
Kochukrishnakurup, K., 727
Koebner, R., 815
Koenig, M., 826
Kogl, F., 380
Kohl, W. H., 554
Kohli, S. J., 788
Kohne, M. P., 817
Kolb, J. H., 603
Kolhatker, G. B., 737
Kolkhorst, G. A., 253
Koller, P. C., 371
Kolni-Balozky, J., 98
Kolte, V. B., 778
Koman, V., 768
Kon, G. A. R., 167
Mrs. P. M., 290
S. K., 290
Konovalov, S., 23, 253
Kooy, F. H., 661
Koppikar, R. P., 736
Korning, S. A., 470
Koshy, P. K., 767
T. K., 765, 797
Koster, B. M., 535
Kosterlitz, H. W., 359
Koteeswaran, P., 722
Kothari, D. S., 755
Krall, H., 710
Kramet, V., 791
Kranrisch, S., 161
Krebs, H. A., 299, 300, 305
Krieger, C. C., 552
Kriel, D. J., 687
Kriewaldt, M. R. C., 588
Krige, C. F., 696
G. J. R , 693
J. D. A., 692, 694
Krishna, M. H., 771, 772
V. S., 721
Krishnaayyangar, S., 727
Krishnaayyar, K. R., 765, 797
Krishnamachari, S. T., 721
T. M., 765
Krishnamma, J. R., 53
N. R., 768
Krishnamoorty, K., 777
Krishnamurti, G. P., 764
R., 764, 765
S , 726
S. R., 727
V., 726
Krishnamurtisarma, B. N., 727
Krishnan, A. L., 764
B. T., 768
K. V., 742
V. S., 782
Krishnasastry, A. R., 772
Krishnasvamiayyangar, G. V., 727
Krishnaswami, K. R., 818
Kritzinger, J. M., 682
M. S. B., 681
Krone, F., 661
Krotkov, G., 532
Krueger, L. F., 558
Krug, Rev. C. A., 523
Kruger, D. W., 675, 676
Kuczynski, R. R., 179
Kuehner, A. L , 457
Kuhlmann, E., 323
Kuhn, H. G., 267
Kulkarni, J. W., 777, 779
K. S., 737
N. M., 730
T. A., 737
Kumar, A., 789
B. R., 736
K., 731
Kundanlal, 777
Kundu, M. L., 809
Kunz, C. E., 670
Kuppaswamiayyar, P. S., 768
Kuppusvamisastriar, S., 727, 729
Kuraishi, B. A., 787, 788
Kureishy, A. M., 714
Kuriyan, G., 763
Kursheed, S. A., 754
Kurth, E. E., 623
Kuttner, B., 22
Kya, L. T., 804
S. O , 810
Kyle, W. M., 606
Kyles, W. B., 386
Kynch, E. J., 169
Kyte, E. C., 532

La'Brooy, W. J. F., 820
La Cassagne, A., 520
La Croix, Mme., 519
La Nauze, J. A., 588
La Touche, C. J. P., 423
T. H. D., 76
La Vielle, G., 323
Laarman, Mme., 197
Labarre, J., 514, 518
Laboulle, M. J., 349
Labrie, A., 476, 477
J.-A., 476
Labuschagne, F. J., 675
Laby, T. H., 598
Lacey, A., 550
F. H , 236
Lachlan, L. A. W. B., 152
Lachmann, R., 815
Lack, V. J. F., 208
Ladborough, R. W., 346
Ladell, W. S. S., 660
Ladouceur, L., 517
Laffan, R. G. D., 47, 59
Laframboise, Rev. C., 529
Lagacé, J. B., 513, 514
Lagloire, P., 476
Lahiri, P. C., 751
Laidlaw, G. N., 522
Sir P. P., 75
R. E., 552
T. W., 508
W. A., 398
Laing, A. M., 90, 91
B. M., 297
E. V , 358
G. D., 697
Laird, A. M., 394
Laird, D. G., 462
H. C., 534
J , 358, 359, 389
S , 493
Lake, N. C., 213
Lakhani, J. V., 737
Lakin, C. E., 207, 210
Lakkapparai, B., 767
Lakshmanamurti, M., 721
Lakshmikantam, P., 722
Lakshminarayanan, C., 765
Lakshmipatisastri, S., 764
Lakshminarasimhan, S., 764
Lal, A., 731
A. N., 794
B. M., 784
B. N., 731
D , 776
J., 791
Kanhaiya, 717
K. N., 731
M. B., 731, 759
M. B., D.Sc., 759
N., 731
N. R., 783
R. B., 742
Hon. Sir S., xxvi
S., 787
S. M., 783
S. N., 730
Lala, S., 743, 744
Laliberté, L., 478
M., 477
Lall, Mrs. D. M., 85
P. S., 787, 788
Lalonde, H., 518
Lam, Chan Chan, 803
Lamb, A. S., 492
E. H., 174
F. W. J. A., 234
S. E., 641
W. L., 372, 374
Lambert, B., 248, 263
F., 123
H., xxvi
H. M., 188
J. D , 266
V. F., 232, 235
Lamberton, J. K., 99
W., 184
Lambie, C. G., 617, 621
Lamble, J. H., 240
Lambrinudi, C., 209
Lamchen, M., 658
Lamech, T. E., 810
Lamont, A., 21
Very Rev. D., 368
H. G., 407
W. D., 385
Lamontagne, R., 514
Lamoureux, Rev. R., 529
Lancaster, H. M., 37
T. L., 641
Lanctot, G., 528
Land, F. W., 177
Landau, J. L., 694
Lander, C. H., 168
F. E. P., 207
Landers, W. M., 151
Landgrebe, F., 359

Landon, F., 572, 573
J. W., 51, 54
P. A., 253, 266
Landreau, G., 519
Landry, H., 529
Landshut, S., 816
Lane, G. R., 345
K. E. L., 677, 678
R. E., 237
W. B., 553, 570
Lang, J., 633
P. S., 599
R. J., 451
W. A., 452
W. H., 230
Langdale, G. R., 834
Langdon-Brown, Sir W., 54
Lange, V., 567
Langelier, G., 481
Langevin, S., 516
Langford, A. N., 457
Rev. F. W., 561
G. B., 551
R. R., 548
Langley, G. J., 234, 235
Langlois, A., 479
C., 517
E., 517
M., 480
Langmead, F. S , 207
Langrishe, J. du P., 373
Langton, J. L , 240
Language, F. J., 687
Lantier, J. P., 517
Lapage, C. P., 235
Lapierre, E., 519
G., 516, 517
Lapira, E., 801
Lapointe, D., 480
P.-Chs., 478
Lapsley, G. T., 61
Laquerrière, A., 517
Lara, M. V. de, 112
Laramée, A., 520
Larchet, J. F., 424
Large, D. K., 618
Larivière, P., 516
Larkin, P., 432
Rev. W. P., 428
Larkins, H. M., 616
Larmor, Sir J., 59
Larmour, R. K., 541
Larochelle, J., 479
Laroia, B. D., 754, 756
Larose, C., 516
P., 529
R., 518
Larsen, T., 460
Larue, A., 478
L., 480
Lascelles, M. M., 270
Laski, H. J., 180
Lasserre, H., 550
Last, F. H., 174
H. M., 250, 258
Laszlo, F., 597
Lat, K. M., 186
Latchmore, A. J. C., 102
Lategan, D., 688
Latham, Rt. Hon. J. G., 595
Latham, M. H., 384
R. C., 152
R. T. E., 223, 257
Latif, H. A., 714
Latin, A., 233
Latour, Rev. C., 529
Lattey, R. T., 252
Lattimer, J. E , 492
Latrémouille, Rev. R., 529
Lauf, G. B , 695
Laughland, J., 561
Laughton, E., 296
N., 23
R. A. L., 590
Laurence, A. J., 518
J. P., 515
Laurenza, V., 800
Laurie, R. D., 313
Laurier, Y., 517
Laurin, E. M., 491
Lauterbach, U., 336
Lauterpacht, H., 51, 183
Lauwerys, J. A., 158
Lavadière, W., 477, 481
Lavergne, N., 480
Laverock, F. H., 111
Lavrin, J., 341
Law, F. W., 209
K. A. O., 595
L. E., 533
W. J., 300
Lawn, G., 638
Lawrence, A. L., 83
A. W., 44
E., 37
G. O., 590
R. D., 210
T. F. C., 597
Lawrie, J. G., 693
Laws, S. C., 226, 227
Lawson, A., 345
F. H., 253, 263
J. W., 505
R., 633
R. W., 297
W. D., 400
Lawton, F. D. H. B., 600
H. W., 346
J. H. T., 143
Laxton, F. C., 339
Laycock, S. R., 542
Layng, Rev. T. M., 258
Layton, T. B., 205
Lazarus, E., 768
Lazerte, M. E., 450
Lazier, M. J. C., 555
Le Barazer, V., 21
Le Beau, G. S., 175
Le Bel, Rev. E. C., 550
Le Févre, R. J. W., 140
L'Heureux, E., 478
Le May H. 694
R., 189, 190
Le Mesurier, A. B., 558
Le Messurier, F. N., 589
le Page, M. H. C., 669
Le Pan, A. D., 547
Le Patourel, J. H., 142
Le Roux, J. J., 672
L. J., 675
Le Roux, T., 658
T. H., 681
Le Sueur, A. D. C., 37
Lea, K. M., 270
Rev. P., 798
Leach, E. H., 252, 268
T. A., 39
W., 503
Leah, A. S., 103
Leahy, W. G., 492
Leakey, L. S. B., 188
Leanage, D. J. T., 822, 823, 824
Learmonth, J. R., 361, 373
Learoyd, W. H. A., 83
Leavis, F. R., 46, 55
Le Bel, M. W., 527
Lebel, M., 477, 481
P., 478
Leblanc, Rev. C., 527
Rev. R., 528, 529
Leblond, S., 480
W., 478
Lebon, J. H. G., 175
Mgr. W., 478
Lebras, G., 148
Lechevalier, J., 477
Leddy, F. J., 541, 544
Lederman, J. M., 507
Ledermann, W., 399
Ledingham, Sir J. C. G., 202, 217
U. C., 207
Leduc, A., 518
J., 516
Lee, A., 239
B. C , 151
D. H. K., 606
E. S., 213
F., 53
H. D. P., 45, 54
J. R., 255
R., 804
R. W., 253, 257
S. G., 262
Leeb-du-Toit, P. G., 672
Leech, C., 81
H., 346
J. G. C., 169
T. D. J., 616
Leeds, E. T., 258, 280
Leela, R., 731
Leeman, A. C., 677
Leeming, E. L., 230
Leeper, G. W., 599
Lees, A., 328
J. M., 101
J. P., 339
M. E., 317
R., 373
R. M., 384
S., 21
Lees-Smith, Rt. Hon. H. B., 180
Lefebure, 9, 137
Lefébure, Y., 826
Léger, A., 517
Legge, M. D., 194
Leggett, D. H., 62
D. M. A., 175

Leggett, R. F., 538, 555
Legrand, E., 516, 517
Legros, R. P., 192
Leibowitz, J., 815
Leicester, J., 239
Leigh, Rev. C., 764
Leighton, H. B , 295
Leim, A. H., 466
Leiper, M. K., 673
R. T., 204
Leipoldt, C. L., 661
Leishman, A. G. V., 506
J. B , 346
Leitch, D., 384
D. B., 453
G. C., 86
Leith, E. I., 504
Lele, B. C., 735
Lelean, P. S., 373
Lemaitre, G. E., 498
Lemay, L., 514
Lemberger, J., 406
LeMesurier, C. S., 488
Lemieux, E., 479
R., 480
Hon. R., 520
Lemon, E. B., 369
Lendon, A. H., 590
Lendrum, A. C., 388
R. G., 387
Lennard, R. V., 252, 267
Lennard-Jones, J. E., 44, 54
Lennox, B., 89
W., 498
W. J., 35
Lennox-Short, A., 658, 675
Lenox-Conyngham, Sir G. P., 46, 61
Lent, G. G., 539
Lentz, E. E., 358
Leo, Frère, 519
Leonard, A. G. G., 423
D., 517
E. R., 835
Leonie, Sister, 779
Léopold, Le R.-P., 518
Leppan, H. D., 686
Lepper, F. A., 264
Lesage, A., 516
Lesieur, R., 515
Leslie, R., 658
W. J., 622
Lessard, R., 480
Lesslie, M. S., 191
Lestrade, G. P., 657
Le Tsai, Ai, 803
Leubuscher, C., 270
Leuschner, A. O., 286
Leventhal, A. J., 414, 420
Léveillé, A , 514
Levens, R. G. C., 263
Lévêque, P., 344
Lever, D., 393
Leveson, P. K., 63
Levesque, G.-H., 478
R. P., 518
Levett, M. J., 384
Levey, M. R., 453
Levi, F., 741
P., 644
Levi, T. A., 312
Levick, C. B., 207
Levin, J. J., 697
Levine, I., 336
Levitsky, J., 815
Levitt, W. M., 212
Levvy, G. A., 372
Levy, H., 169, 320
R., 52
Levyns, Mrs. M. R., 685
Lewin, C. T., 383
Lewis, A., 181
A. G., 192
A. J., 207
B., 187
C., 551
C. B., 398
C. E., 666
C. S., 249, 262, 267
D. H., 314
D. S , 489, 490
E. A., 467
E. A., D.Litt., 312, 313
E. C., 213
E. G , 808
E. P., 558
F. E., 423
F. J., 456
F. J. W., 35
G. A., 318
H., 328
H. C., 460
H. D , 318
H. P., 312
J., 314
Rev. J. D. V., 308
J. M., 601
J. T., 408
L. D , 322
M. A., 804
M. M , 340, 341
M. M., LL.B., 32, 38
N. B., 296
P. R., 238
P. T., 279
Rev. T , 308
Sir T., 207
Thos , 312
Timothy, 311
W. B., 49, 56
W. C. McC., 40, 110
W. E., 119
W. S., 336
W. V., 46
Lewitt, E. H., 168
Lewy, H., 815
Leyman, R. E., 695
Leys, A. M., 271
K. K. M., 267
M. D R., 271
Lickley, J. D., 88
Liddell, D., 677
E. G. T , 252, 266
M. F., 413, 414, 420
Liddicoatt, D., 573
Liddy, R. B , 573
Lidwell, O. M., 258
Lightbody, E. U., 348
Lightfoot, Rev. R. H., 256, 263
Lighthall, A., 460
Lightwood, R. C , 207
Lilge, E. O , 452
Lilley, Rev. A. L., 76
S., 152
Lillie, J. A., 371
Rev. W., 791
Limaye, P. M., 737
Lincoln, R., 826
Lind, E. M., 295, 305
Lindeburgh, M., 487
Lindemann, F. A., 252, 259, 267
Linder, G. C , 662
Lindon, L. C. E., 590
Lindsay, A. D., 257, xxv, xxviii
E. C., 213
E. M., 405
J., 198
K., 326
L. M., 490
W. S., 542
Lindsell, A. E., 193
Line, J., 50, 55
Rev. J., 553, 561, 570
W., 554
Linehan, P. A., 407
Linell, E. A., 557
Linfoot, E. H., 32
Ling, A. W., 36
G. H., 542
T. M., 34
Linnell, W. H., 211
Linning, W. A., 363
Linstead, R. P., 295
Linton, D. L., 369
E. P., 446
R. G., 376
Lionnet, E., 826
Lions, F., 614
Lipsham, E. F., 590
Lipson, L. M., 645
Lisburne, Earl of, 311
Lissenden, G. B., 111
Lissimore, N., 101
Lister, Sir S., 697
W. A., 374
Little, A. C., 413
A. T., 572
G. M., 453
H. G., 574
P. A., 327
Littlefield, W. H., 91
Littlejohn, E. S., 226
Littler, H. L., 336, 337
T. S., 231
Littlewood, D. E., 328
J. E., 61
Livens, G. H., 324
Livingston, A. E., 390
Livingstone, J. L., 207
Sir R. W., 259
T. C., 383
Llewellyn, E. C., 323
G. R., 30
Lloyd, A. C., 370
A. H., 249
B. A., 23
Blodwen, 393

Lloyd, C. M., 181
E. A., 462
H., 298
H. N., 24
Sir J. E., 320
J H., M.Sc., 309
J. M., 324
Ll., 98
L. J., 335
Mrs. V., 336
V. E., 214
V. M., 454
W. E., 207
W. L, 328
Lloyd-Evans, B. J, 144
Lloyd-James, A., 143, 188
Lloyd-Thomas, M G, 46, 63
Lloyd-Williams, P., 215
Llubera, I. G, 76, 407, 411
Loach, J. V., 110
Loader, F. M, 345
Lobban, C. H., 151
Lobel, E., 251, 265
Lobsinger, A. J., 449
Lobsteen, J L., 627
Loch, Lord, 139
Lochhead, J. H., 76
Lockhart, A. R. B, 493
R. D., 357
Lockwood, J F., 140
Loder, L. F., 597
Lodewyckx, A., 596, 597
Mrs. A., 599
Lodge, H., 827
O., 270
R C., 505
Lods, E. A., 492
Loewe, F., 598
H. M. J., 52
Loewi, M., 817
Lofthouse, C. T., 289
Rev. W. F., 25
Logan, A., 87, 90
D. W., 51, 62
H. A., 554, 576
H. B., 33
H. T., 464
J. F., 532
J. W., 465
R. M., 368
Logeman, W. H., 670
Logie, N. J., 361
Lokanathan, P. S., 763
Loke, K. T., 804
Lomas, W. M. A., 83
Lomax, J., 341
Lombaard, B. V, 681
Lomer, G. R., 484, 486
Londhe, D. G., 779
London, F., 817
Londonderry, Marquess of, 78, 405
Lonergan, Rev. Br. D. M., 743
Loney, S. L., 125
Long, F. A., 98
J. A., 560
J. C., 226
J. J., 91
K., 498
M. H., 450
Long, M. H. E., 102
W. H., 99
Longley, E. O, 768
R. S., 446
Looker, E. E, 378
Loomba, A. L., 759
R. M., 755
Loranger, Hon. L., 515
Lorch, Rev. Th., 766
Lord, A. R., 678
G. R, 555
R. D., 233
T. V., 534
Loreto Nuns, Provincial of, 742
Lorimer, H. L., 270, 305
R. C., 754
W. L, 398
Lorriman, F. R., 549
Lortie, L, 514
Lothian, A J. D., 368
J. M., 542
Marquess of, 279
Lotinga, C, 91
Lott, F. M., 559
Loudon, J., 392
J. D, 383
J. D., M B, 556
T. R., 555
Lough, J., 358
K. J., 37
Lougheed, W J., 560
Loughridge, J. S., 405, 408
Louis-Marie, Prof., 531
Loukes, H., 755
Louw, G. J., 689
J. D., 677
L., 662, 683
N. P. v. W., 658
Lovatt, C. A, 375
Love, A. E. H., 252, 265
E. R., 62, 175
W. H, 615
Loveday, T., 30, xxv
W., 382
Lovel, R. W., 118
Lovell, A. C B., 234
H. T., 615, 620
R., 224
S. H., 613
W. E., 543
Lovelock, W., 226
Lovett-Janison, P., 827
Low, A., 365
H. B., 648
H. R., 504
R. A., 533
Lowe, C. W, 503
F. H., 224
G. B., 617
Rev. J, 569
T. L., 115
Lowell, V. C., 561
Lowenstein, O., 336, 386
Lower, L. R. M., 467
Lowery, H., 246
Lowndes, J., 203
Lowry, C. G., 408
G. C., 166
H. V., 226
Lowry, I. K., 492
W. H., 557
Lowson, J P., 607
W., 95, 102
Lu, Ch.-H., 186
Lubatti, O. F., 170
Lubbock, R., 51, 58
Lubetsky, I. K., 470
Lucas, C. C., 556
C. L. T., 203
D. W., 45, 57
E. A, 601
Rev. E D., 788, 790
F. L., 46, 57
G. H. W., 558
H A., 210
P. B, 338
W. I., 346
Luce, Rev. A. A., 412, 414, 416
G. H, 808
Lucey, Rev. C., 421
Luciano, G., 608
Luckhoff, J., 661
Luckwill, L. C., 41, 230
Ludford, R. J., 139
Ludlam, A. E., 226
E. B., 367
Ludowyk, E. F. C., 820
Ludwig, C., 98
Lugard, Lord, xxvi
Luis, E. M., 398
Lumb, S. E., 607
Lumley, E. J. T., 598
M., 390
Lumsden, C. B., 447
T. A., 22
Lunan, N. M., 83
Lund, A. E., 684
Luney, F. W., 574
Lunt, R. W., 140
Lupton, A. W., 98
Lurie, D., 696
Lusby, S. G., 606
Lush, A., 639
Lussier, Abbé J., 514
O., 477
Lutjeharms, W. J., 669
Luzuriaga y Medina, L., 385
Lyall, A., 358
A., M.B., 388
Lye, L. G., 830
Lyle, A., 678
Lynam, C. C., 287
Lynch, G. A. C., 124
G. R., 204, 210
J. A., 605
J. B., 382
Lynn, M. J., 405
Lyon, D. Murray, 372, 374
M, 557
R., 85
R. M. M., 372, 374
Lyons, J., 408
J., M.Sc., 430
R. J, 615
Lys, Rev. F. J., 268
Lysaght, A. C., 333
Lyster, R. A, 204
Lyth, R., 235

Lythgoe, R. J., 143, 230
Lytle, W. J., 299, 300
Lyttleton, R. A., 48, 60

MAARTENS, M. J., 669
Maass, O., 485
Mabbott, J. D., 252, 266
Macadam, F. L., 268
MacAdam, W., 100
McAfee, C. H. G., 408
Macalister, R. A. S., 423
McAlister, W. J., 453
McAllan, W., 393
Macallum, A. B., 572
Macalpine, B. I., 25
M'Alpine, D., 207, 208
I. M., 383
McAndrew, Mrs., 755
W. A. G., 485
W. J., 550, 560
Macarthur, I., 644
MacArthur, J. W., 548
M'Arthur, D. N., 390
M. M., 398
N., 384
Macartney, C. A., 257
K. L., 597
Macassey, Sir L., 174
Macaulay, J. M., 395
McAulay, A. L., 623
MacAuley, C. J., 423
McAuley, A. G., 498
Macbeath, A., 406
Macbeth, A. K., 587
McBride, P. P., 424
W. G., 488
M'Broom, H. L., 394
McBryan, F., 432
MacCabe, Rev. L., 432
McCall, A. J., 124
M'Call, J. R., 390
MacCallan, A. F., 209
M'Callien, W. J., 384
M'Callister, W. J., 406
MacCallum, H. R., 553
Sir M. W., 614
P., 600
McCallum, E. D., 86
R. B., 264
S. P., 252, 263
MacCalman, D. R., 361
McCance, R. A., 52, 61
McCandlish, D., 103, 104
McCann, Very Rev. P. J., 269
McCarmick, A., 96
MacCarthy, E. M., 414
McCarthy, A. A., 421
B. G., 428
C. P., 428
E. F., 429
J. P., 606
M. D., 429
MacCarvill, Mrs., 424
M'Caughey, L. W., 416
McCharles, C. W., 507
M. R., 508
MacCionnaith, E., 433
McClean, R. J., 177
McClelland, A. W., 492
E. W., 150
M'Clelland, I. L., 385
W. W., 398
MacClement, W. T., 538
McClung, R. K., 505
McClure, H. I., 408
M'Clure, J., 391
M'Cluskie, J. A. W., 389
McClymont, W. G., 633
McCollum, R. V., 511
McCombie, H., 44, 57
MacConaill, M. A., 295
McConkey, O., 561
S., 597
McConnel, K. H., 613
McConnell, Mme, 533
M'Connell, A. J., 412, 415
McCoort, I., 82
McCorkell, Rev. E. J., 550, 560
MacCormac, H., 203, 207
MacCormick, Rev. D., 539
M'Cormick, F. R. A., 413
McCourt, E. A., 533
McCracken, D. J., 399
H. N., 538
R. J., 501
McCrea, W. H., 407
McCredie, D. W., 618
McCrie, J. G., 372, 374
McCrindell, J. M., 288
MacCrone, I. D., 695
McCuaig, C. H., 558
McCullagh, D. G., 554
G. P., 52, 59
P. F., 485
McCulloch, A., 239
D. E., 606
F. J., 104
M'Culloch, W. P., 383
McCullough, D. L., 453
W. A., 627
W. S., 553
McCunn, J., 227
MacCurdy, J. T., 52, 54
McCurdy, L. R., 488
W. J., 553
MacDermot, H. E., 491
McDermott, E. N., 433
J. C., 18
M., 423
Macdonald, Annie, 359
A., 368, 370
A. D., 236, 242
A. E., 504
A. M., 373
C. R., 42
C. R., M.B., 299
Rev. D. B., 547
D. F., 336
E. W., 553
H. W., 466
I., 267, 269
I. W., 382
J., 160, 451
J. A., 397
J. A., Sask., 456
J. B., 387
J. F., 549
J. Y., 397, 404
N., 500
Macdonald, P. A., 468
P. A., Ph.D., 505
R. A., 111
R. St. J., 491
T. F., 454
W. C., 555
W. S., 100
MacDonald, A. B., 540
A. E., 557
D. F., 539
Very Rev. D. J., 539
H. K., 469
J., 357
J. A., 542
Rev. J. A., 539
J. H., M.B., 388
J. M., 504
M., 271
M. D., 550
R. B., 447
S. C., 466
V. C., 467
W. L., 456, 460
McDonald, A. H., 341, 343
A. H., Aust., 614
A. T., 575
C. G., 617
D. P., 810
G. G., 386
G. W., 599
S., 94
S., M.B., 24
MacDonell, M., 540
Macdonnell, M. L., 533
P. M., 535
U. N., 503
Macdougald, T. J., 415
MacDougall, A. J., 298
G. D. A., 96
J. G., 469
McDougall, D., 505
D. J., 551
J., 98
J. L., 533, 535
Sir R., 246
MacDowall, R. K., 255
McDowall, R. J. S., 153, 156
Mace, C. A., 192
McEachern, D., 489
I. W. T., 453
J. D., 507
J. M., 506
J. S., 521
Rev. M., 539, 540
MacEachran, J. M., 451
McElligott, G. L. M., 214
McElroy, R. McN., 265
MacElwee, N. M., 20
MacEntee, Mrs., 424
MacEwan, J. U., 488
McEwan, M. R., 695
MacEwen, C. W., 114
J. W. G., 543
McEwen, A. D., 184
B. C., xxvi, xxix
W. H., 523
McFadden, E. G., 505
T., 407
Macfadyen, E., 834
MacFall, J. E. W., 124

McFarland, B. L., 118
Macfarlane, C. W., 623
J., 389
L., 99
R. O., 505
W. D., 492
Macfarlane-Grieve, A. A., 82
MacFarlane, M. R., 562
N. A., 20, 21
McFarlane, J., L.R.C.P., 332
J., 358
K. B., 251, 262
M'Farlane, W., 385
MacFhinn, Rev. P. E., 432
Macfie, A. L., 385
McFie, Mrs., 64
MacGachen, F., 485
McGahey, Rev. J. E., 553
McGee, Rev. Br. J. N., 745
MacGibbon, C. H., 633
MacGill, E. I., 235
McGilligan, P., 425
MacGillivray, A. M., 401
I. M., 373
J. R., 549
M'Gillivray, D. M., 401
J., 376
McGilvray, C. D., 562
McGlynn, P., 383
McGookin, A., 111
McGrath, F. A., 430
J., 425
M. J., 101
McGreer, Rev. A. H., 457
Macgregor, A. S. M., 388
D. C., 257
D. H., 252, 257, 282
Rev. G. H. C., 383, 390
J., 43
L., 87
L. A., 692
R., 82
MacGregor, A., 188
A. R., 372
D. C., 554
D. G., 523
J. W., 453
M., 141
R. G. M. S., 830
R. R., 536
McGregor, A., 554
A. Lee, 697
J., 99
W. R., 642
M'Gregor, W., 386
MacGregor-Morris, J. T., 175
McGuckin, F., 89
McGuinness, F. G., 507
Machado, F. E., 808
McHardy, J. W., 371
MacHattie, L. B., 467
McHenry, E. W., 559
J. J., 429
McIlroy, H. M., 460
McIlvenna, E. G. C., 369
McIlwraith, A. K., 112
T. F., 547
McInerney, H. O., 525
MacInnes, C. M., 32, xxv
I., 461
M'Innes, R. G., 373
McInnis, E., 551
Macintosh, R. R., 254
MacIntosh, J. W., 468, 469
McIntosh, A., 327
A. B., 394
J., 210
J. F., 489
R. A., 562
W. G., 555
W. G., S.A., 680
W. G., Singapore, 832
M'Intosh, H., 386
D. G., 404
MacIntyre, M. M., 450
Macintyre, A. J., 359
McIntyre, D., 506
D. F., 508
H., 450
K. G., 597
M., 388
R. B., 555
M'Intyre, D., 388
MacIver, A. M., 98
McIver, L. D., 634
Mack, F. G., 469
F. M., 151
Mackay, A., 393
C. A., 543
F. H., 489
I. F. S., 234
J. M., 383
W. M., 398
MacKay, D. S., 507
G. J., 538
H., 515
J., 512
L. A., 549
R. A., 467, 472
R. W. M., 468
McKay, W. B., 239
J., 425
L. A., 363
McKeag, H. T. A., 408
R. H., 40
McKean, E. J., 406
McKechnie, R. E., 459
McKee, S. H., 490
McKellar, A., 382
McKelvey, Sir J. L., 618
Macken, M., 424
McKenna, Rev. L. G., 540
C. B., 415
McKenty, F. E., 491
Mackenzie, A. H., 688
A. S., 435
B. A., 669
C. J., 543
D., 597
F., 398
F. Scott, 494
H. L., 804
J., 736
J. E., 378, 380, 708
J. R., 361
M. E., 485
N., 563
N. A. M., 552
Hon. P. E., 541
R., 287
Mackenzie, W. Grant, 692
W. J. M., 262
W. K. S., 616
MacKenzie, D. W., 491
E. J., 542
G. I., 484
K. A., 468
McKenzie, A., 404
D. A., 99
D. W., 489
G. S., 525
I. F., 630
J., 707
K. G., 558
M'Kenzie, D. A., 389
H. M., 363
McKeown, A., 110
McKergow, C. M., 488
McKerron, G. G., 678
R. G., 694
McKerrow, R. B., 151
Mackey, W. A., 388
Mackie, A., 614
E. G., 295
J. D., 384, 390
T. J., 371
W. S., 658
McKie, D., 142
J. I., 258
P. V., 196
McKiel, C. H., 523
H. W., 522
McKinlay, T. S., 393
McKinley, C., 466
McKinnell, J., 673
Mackinnon, D. L., 153
L., 360
MacKinnon, A. P., 508
D. M., 268
N. E., 559
McKinnon, F., 606
Mackintosh, A. B., 771, 773
J., 291
J., Scot., 380
R. H., 696
R. R., 265
W. A., 533, 534
MacKinven, A. D., 384
McKisack, M., 270
Macklin, A. H., 401
C. C., 574
M. T., 574
McKnight, G. S., 465
McLachlan, A. D., 386
A. E. W., 90
A. T., 560
Rev. H., 230, 239, 244
Maclagan, D. S., 88
Sir E., 40
M., 259
Rev. P. J., 187
W. G., 264
MacLagan, N. F., 210
McLaggan, J. D., 205
McLaren, A. S., 395
E. J. R., 641
H. C., 361
McLarty, T. L., 589
McLauchlin, F. E. M., 506
MacLaughlan, D. W., 485

McLaughlin, Rev. M. E., 540
Rev. P. J. I., 421
R. R., 555
McLay, A. B., 501, 554
W. S. W., 500
Maclean, H. R., 454
MacLean, A., 393
A., Canada, 551
A. B., 387
C., 539
D. L., 559
N. B., 486
McLean, A., 810
A. L , 468
D. C. A. G., 597
E. C., 561
I. S., 202
J., 736
J. W., 646
N., 53
R. C., 322
R. R., 453
W., 319
Wm., 763
W. J., 574
M'Lean, J., 393
M'Leish, D. A. S., 386
Maclellan, E. K., 468
MacLellan, Rev. M. A., 539
M'Lellan, R. D., 140
Maclennan, R. D., 487
McLennan, E. I., 595
Macleod, D. B., 639
Rev. J., 571
J. W., 32
P. J., 625
MacLeod, A. C., 213
D. H., 208
H. J., 460
J., 360
J. A., 505
McLeod, A. C. R., 215
E., 523
G. M., 83
P. A., 535
J. W., 100
McLoughlin, E. P., 423
McLuckie, J., 614
Maclure, F., 601
McMackin, Rev. J. J., 421
MacMahon, J. S., 618
P. S., 758
McMeekan, C. P., 648, 650
McMeeken, A. N., 370
McMichael, J., 207
Macmillan, Hon. C., 485
E. W., 109, 114
Lord, 125
Macmillan, Sir E., 553
J. A., 490
McMillan, A. M., 506
D., 660
J. C., 506
Q. C., 394
W. H., 369, 375
McMinn, W., 617
McMorran, H. I., 63
McMullen, Rev. G. A., 570
Macmurray, J., 143
McMurray, T. P., 117
McNab, Hon. A. P., 541
M. C , 561
Macnabb, D. G. C., 265
McNabb, H. H., 236
MacNaghten, Justice, 42
McNair, A. D , 56, 109, xxv
A. J., 208
I. T., 790
McNairn, W. H., 500
McNally, F. M., 446
W. J., 490
McNaught, A. V., 607
Macnaughton, D. A., 40
McNee, J. W., 387
MacNeice, F. L., 191
M'Neil, C., 371
Macneill, M., 466
MacNeill, A. C. M., 395
H. L., 501
J., 424
McNeill, G., 574
P. B , 347
W. E., 532
W. M., 358
M'Neill, J. C., 405
Macnicol, Rev. R. S., 765
MacNiven, A , 388
McOwan, G., 832
Macphail, A., 533
Rev. J. R. 765
MacPhail, H. D , 90
M. St. J., 447
McPhail, M. K., 456, 468
McPhedran, A. G., 557
W. F., 556
McPhee, W. A., 118, 306
Macpherson, C. B., 554
F. S., 452
J., 553
L. G., 532, 533
R. K., 605
MacPherson, Rev. H., 540
H. M., 447
McPherson, A. W , 21
J. A., 453
M , 525
MacQuarrie, W. R., 466, 467
McQueen, J. D., 507
R., 505, 512
McQuiggin, H. G., 615
M'Quistan, D. B., 394
Macrae, J. M., 102
McRae, B., 83
J. A., 532
MacRitchie, F., 360
MacRobert, T. M., 384
McRobert, G. R., 767
McRostie, G. P., 561
McShane, C. C., 623
G., 515
MacSweeney, J. J., 424
McSweeney, D. T., 429
E. P., 428
McSwiney, B. A., 211
Mactaggart, C. I., 395
McTaggart, H. A., 553
MacVicar, W., 635
McVittie, G. C., 152
McWatters, Sir A. C., 266
M'Whan, J., 384
McWhirter, R., 373
McWilliam, N , 194
Madan, B. K., 788
Maddern, C. B., 590
Maddock, E. C G., 290
Maddocks, W. R., 298
Maddox, J. K., 617
Madeleine de Jesus, Rev. Sr. 529
Mader, V. O , 469
Madge, M. A. P., 194
Madgin, W. M., 85
Madgwick, R. B , 614, 618
Madhava, K. B., 772
Madhavannayar, A. P., 726
Madhavarao, B. S., 772
Madhusudan Shodangi, 721
Madigan, C. T., 588
Madill, H. H., 555
Madras, Gov. of, 726, 763
Madsen, J. P. V., 616
Maegraith, B. G., 254, 260
Magee, B., 31
G. R., 573
V., 34
Magennis, W., 424
Magill, C. P., 141
E. S., 695
Magnan, A., 516
C. J., 478
Magner, W., 557
Magnes, J. L., 814
Magnus, H. A., 210
Magrath, C. R. R , 413
Maguinness, O. D., 296
W. S., 296
Mahadevan, P., 764
Mahadeyan, T. M. P., 764
Mahahingasasti, Y., 727
Mahajan, D. R., 789
Mahajani, G. S., 730, 737
Mahalanobis, P., 743
S. C., 741, 742
Mahanti, A., 795
Mahapatra, S. C., 795
Maheux, A., 477
G., 477, 481
Mahir, A., 189
Mahmud, K. A., 779
Mahon, H. J. D., 643
Mahoney, G. H., 794
J. C., 606, 608
Maidment, K. J., 263, 269
Mailhiot, A., 520
Mailloux, B., 531
Mailvaganam, A. W., 820
Main, A., 383
Mainds, A. D., 85
Maine, S. F., 573
Maingard, L. F., 693
Mainland, D., 465
W. F., 152, 177
Mainstone, P. A., 318
Mair, J. A., 383
L. P., 179
Mrs., 183
Maisels, I., 697
Maitland, H. B., 237, 238
P., 44, 63
W., 362

Maitland-Jones, A. G , 204
Maitra, A., 743
B. N., 743
G., 745
J. N., Patna, 795
K. M., 788
S., 742, 743
S. K., 730
Maizels, M., 210
Majid, S. A., 795
Major, J. P., 600
K., 271
Majumdar, D., 743
D. N., 758
G., 743
K., 718
M. L., 750
N. C., 809
R. C., 750
S , 743
T. N., 741
Makhdum, M. M., 714
Makoday, G. S., 779
Malalasekara, G. P., 820
Malan, A. I., 684
A. P., 675
D. E., 682
D. J., 682
D. J., Cape, 660
F. S., 667
Malaviya, K. N., 731
M. M., 730
Malcolm, Sir D. O., 179, 257
H. P , 408
J., 389
J., M.D., 634
J. F., 389
W. E., 538
Malcolmson, G. H., 453
Male, G. P., 291
Malherbe, D. F., 669
D. F. du T., 680
F. E. J., 687
I. de V., 689
W. E., 688
W. M. R., 688
Malik, A. Q., 789
Malinowski, B., 179
Maliphant, R. G., 331
Malkani, H. B., 731
Malkin, T., 31
Mallen, C. E., 86
Mallett, E., 225, 228
Mallik, D. N., 745
L., 744
Mallison, H. V., 336
Malone, R. H., 809
Malpas, P., 116
Malpass, J. C. L., 230
Malta, Gov. of, 800
Malthus, C., 638
Manavalaramanujam, S. G., 764
Manchester, R. C., 759
Mandal, B., 744
Mandali, S. P., 738
Mandelbrote, H. J., 659
Mandell, W., 226
Mandlekar, M. R., 734
Mane, E. G., 778
Mangalik, V. S., 757
Mangeshrao, N., 768
Mangham, S., 345
Mangrulkar, B. A., 777
Maujunath, B. L., 771
Manley, A. F., 81
G., 82
Mann, E. E., 346
F. G., 44, 62
H. C., 225
I. C., 209
J. G., 40, 193
J. de L., 271
J. S., 597
K. C., 462
M., 64
S. A., 210
W. B., 170
Mannadiyar, A. S., 767
Mannering, Rev. I. G., 45
Mannheim, H., 179
K., 181
Manning, B L., 47, 56
C. A. W., 180
R. J., 541
Mansbridge, A., 524
Mansfield, M. G., 827
W. S., 50, 55, 73
Manson, Rev. A., 76
J., 87
Rev. T. W., 107, 238
Rev. W., 368
Manson-Bahr, P. H., 214
Mansur, A. H., 713
Manthei, R. A., 110
Manton, B. G., 168
G. R., 174
I., 107,230
S. M., 63
Manurkar, Y. R., 731
Manvell, A. R., 36
Manzoni, H. J., 28
Maolankar, R. B., 778
Mapother, F., 207, 219
Marais, D. P., 661
G. V., 687
J. S., 689
J. S., Cape, 659
M. J., 658
Marcellus, F. N., 561
Marchant, E. C., 261
E. W., 115
G. H., 757
S., 226, 228
Marcotte, Rev. F. X., 527, 528
Marcoux, H., 477
Margoliouth, H. M., 247, 264
Marie-Stéphane, Sr., 519
Marie Therèse, Sister M., 551
Marie Valentine, Sr., 519
Marie Victorin, Frère, 513
R. F., 515
Marin, A., 516
Marinkovitch, R., 237
Marion, D., 516
S., 527
Maritain, J , 553
Maritz, S., 671
Mariwalla, D. T., 737
Mark, C., 505
Markham, A. F., 795
F. M. H., 261
H. H., 88
Markle, Rev. W. B., 544
Markotter, E., 687
Marks, G., 614, 622
J., 232, 242
Mrs., 191
Marleyn, R., 328
Marmorstein, A., 227
Marnham, R., 213
Marples, B. J., 633
Marquand, H. A., 323
Marquis, A., 480
Sir F. J., 109
Marrack, J. R., 210
Marrett, R. R., 260
Marrian, G. F., 367
Marriott, C., 118
Marrs, R., 820
Marsan, G. A , 517
Marschak, J., 253, 282
Marsden, A. W., 167
Marsh, A., 560
Rev. F. S., 45, 63
J. E., 287
L. C., 485
L. R., 215
R. W., 36
S., 226
W., 240
W E., 693
Marshall, A. D., 811
A. M., 469
Alice J., 388
C. E., 21
C. J., 213
D., 323
F., 618
F. H., 152, 156
F. H. A., 50, 53
G., 207
J., 192
J., Scot., 387
J. E., 110
M. J., 459
T. H., 181
T. J., 591
W. T., 167
Marston, A. D., 201
Martienssen, R., 680
Martin, A. G., 184
A. H., 615
Chester, 551
C. P., 484
D., 394
E. C , 196
E. K., 213, 226
F. W., 387
G. C., 765
G. E., 374
H., 36
H. E. L., 86
J. A., 532
J. B., 466
J. J. B., 34
L. C., B.Litt., 112
L. C., D.Sc., 170
L. H., 598

Martin, M. S., 322
M. T., 196, 197
T. A , 803
V., 483
W. E., 98
W. H., 549
W. J., 112
Martin Smith, P., 642
Martindale, H., 193
Martines, R., 305
Martino, P., 76
Marty, Mme., 804
Martyn, D. F., 616
Mary Louise, Rev. Mother, 470
Maryon, H. J., 85
Maskell, E. J., 44
Mason, A. B., 454
A. D. A., 558, 559
A. W., 561
A. Y., 679
C. M., 232
E. H., 489, 490
F., 97
G. A., 90
K., 250, 261
Massé, A., 479
Massee, A. M., 225
Massey, E. R., 447
H. S. W., 142, 407
I. M., 192
J. H., 661
Massie, G., 213
Masson, J. I. O., 84, 295, xxv
P., 513
R. P., 360
Master, A., 188
Masterman, C. A., 344
J. C., 259
Masters, D , 534
Mate, S. M., 738
Mather, J. H., 117
K., 145
Mathers, A. S., 555
A. T., 506
Rev. J., 368
R. P., 400
Matheson, A., 367, 382
A. D., 595
D. C., 376
D. C., M.B , 532
J., 534, 537
J. L., 20
M., 542
P. E., 263
Mathew, K. T., 809
M., 768
Mathew-Lannowe, E. B., 152, 177
Mathews, S. W., 459
Mathewson, F. A. L., 507
J. A., 488
Mathias, S. Y., 335
W. T., 110
Mathiot, H., 479
Mathur, B. D., 754
C. L., 789
H. G. D , 757
K. N., 759
Raj N., 754
Mathur, S. N., 757, 758
Matsukawa, B , 187
Matte, Rev. H., 529
Mattei, S. F., 801
Matteringly, H., 338
Matters, R. F., 589
Matthai, G., 788, 790
Matthews, A. W., 453
B. E., 220
B. H. C , 49, 57
E., 238
Evelyn, 289
Rev. G., 765
H. A., 192
J. R., 357, 363
L. H , 33
T. H., 484
Mattick, A. T. R., 290
Mrs., 290
Mattinson, A. B., 114
K. M., 95
Mattocks, R. H , 111
Mattu, A. N., 789
Mauchline, J., 384
Maud, J. P. R., 176, 252, 267
Maude, C., 83
Maung, E., 808
U. T. M , 807
Maunsell, F. G., 346
Maurault, O., 513
Maurer, K. W., 141
Maurice, Sir F. B., 174
Abbé O., 514
Maw, A. J. G., 493
W. A., 493
Mawdsley, J. B., 542
Mawer, Sir A., 139, 144
Mawson, Sir D., 588
H , 110, 115
Maximoff, N., 608
Maxse, R. E. B., 258
Maxted, D. R., 288
E. B., 31
Maxwell, Sir A., 286
C. E., 413, 414
D , 371
E. A., 59
E. A. M., 225, 228
I., 614
J., 207
J. A., 594, 603
L. A. I., 598
W. R., 466
May, A. N., 153
H. R. D., 341
H. W., 622
L., 613
S., 606
Z. G. C., 83
Mayall, R. H. D., 60
Maybury, B. C., 213
Maycock, A. L , 71
Mayer, L. A., 814, 816
Mayne, Rev. W. C., 81
Mayneord, W. V., 211, 219
Mayo, R., 175
Mayrand, L., 529
R., 479, 480
Mayrs, E. B. C., 408
Maze, W. H., 614
Mazumdar, D N., 731
J. C. Sen, 795
Mead, C. S., 587, 590
E. W., 230
Meade, F. E., 394
H. S., 426
Meadows, S. P., 207
Meakins, J. C., 489
Meana, L., 234
Meara, M. L., 111
Mearns, A. G., 388
J. A., 363
Medawar, P. B., 262
Medley, J. D. G., 595
Medlicott, W. N., 328
Medovy, H., 507
Mee, A. E., 605
Meek, T. J., 553
Meen, V. B., 552
Meenagh, Rev. P., 608
Meenan, J. N., 426
Mees, H. A., 192
Meggitt, F. J., 807
Mehra, H. R., 718
P. N., 787
Mehrotra, B. M., 730
K. K., 717
Mehta, B. M., 736
G. P., 730
H. S., 735
J. K., 717
J. M., 735
J. N., 736
K. R., 731
L., 777
R. D., 777
T. N., 734
Meiggs, R., 258, 268
Meikle, A. A., 389
Meiklejohn, A. K. M., 376
M. F. M., 659
Meinze, B. T., 602
Mekie, D. E. C., 830
Melbourne, A. C. V., 606
Melchett, Lord, 149
Meldrum, M. C., 406
R., 46
Melgaard, A. L., 498
Melhado, G. C., 490
Mellanby, Sir E., 53, 567
Mrs. H., 297
J., 252, 262
K., 297
Lady May, 297, 305
Melland, C. H., 231
Mellé, B. G., 696
Mellor, D., 498
D. P., 614, 622
Melson, J. W., 556
Meltzer, S., 507
Melville, E. M., 390
H. W., 44, 62
K. I., 490
R. H., 642
R. S., 401
Melvin, G. S. 534
Melzer, L., 696
Memon, A. A., 713
Memorian, Bro., 454
Mendel, B., 556

Mendelssohn, E., 693
Mendis, G. C., 820
Menezes, A L. M., 736
Mennie, D. M , 87
J. H , 485
Menon, A V. K. K., 766
B. K., 807
C. A., 764
C. N , 730
K. K., 767
K. V., 778
M. N., 809
T. N., 188
V. K. N., 759
Menzies, A. C., 347
D. W., 36
G. H., 660
R. C., 41
Mer, G., 815
Mercer, C. H., 466
F. S., 454
S. A. B., 553
S. P., 407, 409
W., 373
Mercier, O., 517
Mercure, H., 478
Mere, G., 187
Meredith, H. O., 406, 409
P., 335
Merewether, E. R. A., 361
Merh, R. L., 730
Merkeley, H. J., 506
Meron, A. S., 726
Merriman, P. J , 428
Merritt, J. W., 468
Merson, A. L., 265
Mes, G., 680
Mesham, P., 673
Messenger, H. L., 214
Messent, P. S., 590
Mesterton, E., 144
Meston, Lord, 139, 357
Metcalfe, G., 54
O. K., 296
Metha, D M., 737
Methven, J. C. W., 181
Metivier, H. V M., 835
Meurig-Davies, E. L. B., 266
Mewburn, F. H. H., 453
Meyer, B., 486
C. J., 678
G., 817
R. C. J., 696
Meyers, E. S., 602
Meyler, D. S., 312, 313
Mi, H. P., 804
Michael, Rev. J. H., 561, 570
Michaelson, I. C., 387
Michell, H., 501
J., 189
Michener, D. R., 279
Michie, J. L., 605
Micks, R. H., 416
Middlemiss, J. E., 102
Middleton, E., 231
H. S., 48
J. C., 387
Miers, Sir H. A., 231, 262
Mignault, G. E., 517
Mignonat, R., 46
Milburn, A. R., 57
Rev. R. L. P., 268
Miles, A. A , 202
F. F., 644
H. W., 235
Sir J. C., 263
W. H., 87
Mill, Rev. G. S , 745
W. A., 205
Millard, W. A., 99
Millen, J. W., 405
J. L. E., 407
Miller, A. A., 289
A. B., 113
A. E., 386
A. F , 468
A. R., 598
C. C., 367
C. V , 742
D A., 374
D. L., 642
E., 633
E M., 623
F. C., 345
F. R., 573
G. G., 491
H. G., 644
I. D., 613, 618
J , 535
J. C., 480
J. C. P., 113
Rev. J. H., 397
M. S., 390
N., 534
R. B., 451
S. N., 384
T. E., 99
T. M'W , 374
W., 394
W. A., 616
W. C., 227
W. G., 372
Millett, H. C., 103
Millikan, G. A., 49
Millin, D., 695
Millis, J., 595
Millman, M. B., 559
P. M , 548
Milln, G. H. S., 401
Millott, N., 235
Mills, A., 400
A. E., 613
A. K., 288
E. S., 489
E. W., 587
H. R., 766
J. E., 614
R. C., 614, 620
S. E. D., 345
W. H., 56
Milman, O. R. E., 268
Milne, A., 368
D., 678
E A., 251, 267
E. R. M., 395
F. M., 401
G. P., 361
G. R., 395
J. B., 215
J. G., 119
Milne, J. J., 19, 21
J. R., 370
R., 213
S., 112
T. H , 505
W. P., 97
Milner, L. G., 169
S. R , 297
W. S., 298
Milner-Barry, A. M., 76
Milner-White, Rev. E., 57
Milnes, N., 368
Milroy, Mrs. L., 271
Milton, W. E. J., 314
Min, U. M., 807
Minchin, A. E., 641
R. H., 767
Minett, F. C., 227
Minnitt, R. J., 115
Minns, E. H., 43, 58
Minor, A. B., 535
Minorsky, V., 188
Minville, E., 518
Mirakjar, V. R., 792
Mirashi, V. V., 779
Mirfield, T. N., 597
Mirza, Babar, 715
H. A., 783
M. S , 785
Misener, G., 450
Mishra, B., 731
R. D., 731
S. K., 776
V., 730
Miskin, W., 184
Misra, A. B., 731
C. P., 757
K. N., 795
K. P., 730
K. P., Lucknow, 760
L. S., 760
N., 795
R., 758
S. C., 772
S. N., 717
S. S., 757
U., 776
Umesh, 718
Mitchell, A., 360
A. B., 398
A. B., O.B.E., 18
A. G., 614
C. H., 555
D. M., 416
G. A. G., 357
G. F., 414
J., 244
J., B.Sc , 432
J., Ph D., 543
J. B., 64
J. S., 60
K., 98
Lord M., 404
M. E., 388
M. L., 587, 594
P. C., 357
R., 450
R. B., 507
S. T. R. S., 383
T. J., 393, 397

Mitchell, Sir W., 587
W. F., 289
W. M., 376
W. T. B., 491
Mitchener, A. V., 506
Mitchiner, P. H., 213
Mitford, Mrs., 400
T. B., 398
Mitra, B., 742
B. N., 755
C. C., 742
C. T., 794
D., 758
J., 742
J. N., 755
K. K., 788
K. N., 740, 744
M. N., 778
N. N., 777
S. C., 751
S. K., 741
S. N., 740
Mitter, J. H., 717
Mrs., 718
O. K., 808
P. C., 740
Mockeridge, F. A., 327
Mockler, G. S., 86
Moe, G. G., 462
Moelwyn-Hughes, E. A., 44
Moerdyk, G., 680
Moffatt, C. F., 489
Rev. E. K., 457
M. M., 112
R. C., 561
R. W., 504
V. W., 403
Moffet, S. O., 322
Mogg, A. O. D., 684
R. A., 322
Moghe, M. A., 779
Mohamad, Sd. S., 782
Mohammad, Wali, 759, 762
Mohan, P., 718
V. C. M., 778
Moholkar, V. S., 784
Mohr, C. B. O., 660
Moignard, L. A., 103
Moin, S. M. A., 794
Moinuddin, K. S., 765
Moir, C., 498
C. M., 394
J. C., 254, 264
J. Reid, 170
P. J., 101, 102
Mole, J. H., 168
Molesworth, E. H., 617
F. C., 317
Moll, H. H., 100
Moller, N., 217
Mollison, C. H., 599
Moloney, P. J., 556, 559
Molony, Sir T. F., 412
Molson, H., 498
Monahan, A. J., 96
Moncrieff, A., 340
A. A., 204
Mone, T. V., 778
Money, R. A., 622
Monkhouse, J. P., 205
Monkhouse, O. E., 191
Monks, F. T., 238
Monmouth, Bp. of, 307
Monnig, H. O., 684
Monro, A. D., 644
J. K., 830
Monteath, H. H., 371
Monteiro, E. S., 829
Montgomery, F., 573
G. L., 388
J. F., 454
J. K., 406
L. C., 489
R. J., 556
Montpetit, E., 513, 516, 518
P., 514
Montreuil, A., 478
Montrose, J. L., 406, 409
Moodie, A. R., 401
W., 181
Moody, T. W., 406
Mookerjee, A. K., 755
H. C., 740
H. K., 741
S., 740, 748
S. C., 744
Mookerji, R. K., 758
Moolgavkar, S. R., 735
Moon, H. P., 346
P. B., 23
Mooney, B. R., 453
Moore, A. E., 240
A. E., M.B., 430
A. M. A., 213
A. P. R., 590
A. S., 215
C. A., 30, 35
E. S., 551
F., 606
G. E., 49, 61
Gertrude E., 462
H. B., 279
H. F., 426
H. I., 99
J. H., 525
L. A., 33
L. B., 642
M. J., 323
N., 447
R. F., 209
S. A., 635
T. S., 194
W. G., 250, 266
Moorhead, T. G., 415
Moorhouse, V. H. K., 507
Moorrees, A., 687
Moraes, G. M., 736
Moran, F. E., 413, 415
Morant, G. M., 145
Moraud, L., 479
Mordell, L. J., 233
More, J. A., 371
Morgan, A. D., 361
C., 193
D. O., 370
E. A., 557
E. B., 288
E. Ll., 240
F. W., 336
Rev. H., 307, 314
Morgan, J., 324
J., Scot., 363
J. G., 336
J. H., 223
J. McI., 401
L. T., 554
O. G., 209
R. E., 104
S. C., 460, 538
T. J., 324
T. L., 297
T. N., 361
Rev. W. H., 350
W. P., 331, 332
W. T. J., 202
Morin, C., 515, 519
E., 479
Père L., 514
V., 515
Morneau, Rev. H., 527
Morrison, C. G. T., 255, 259, 261, 267
J. E., 408
J. L., 86
W. A., 162
Morisset, Rev. A., 527
Morland, A. J., 207
Morley, D. W., 803
E. J., 289
J., 237
L. J., 804
Morley, S. G., 549
Morrell, W. J., 633
W. P., 177, xxvi
Morrice, Rev. R. J., 544
Morris, Rev. A. E., 350
C. R., 257
C. W., 201
D. G. O., 317
D. V., 433
E. M. D., 323
F. G., 86
G. C., 42, 47, 57
G. I., 407
J. H., 311
J. H. C., 262
N., 387
R. A., 240
W., 205
W. F., 289
Morrison, A. C., 360
C. F., 555
C. L., 271
E., 460
G. A., 18
I. F., 452
Most Rev. J., 539
J., 407
J. C., 386
J. L. M., 33
J. S., 62, 231
J. T., 118
L., 646
M. B., 539
R., 408
R. V., 809
Morrow, A. W., 617
J., 79, 86
Morse, H. D., 507
Morsh, J. E., 462

Morshead, O. F., 58
Mort, J. H., 111
Morten, F. J., xxvii
Mortensen, H. N., 600
Mortimer, E. N. L., 563
Rev. R. C., 255, 259
Morton, A. C, 648, 649
A. R , 468, 469
A. S , 542
C , 226
D. M., 677
E., 232
H., 387
J. M., 500, 501
N. W., 487
R. A., 111
V. C., 313
W. B., 409
W. C., 95
W. E., 240
W. R. M., 43
Moses, A. V., 765
D. G., 779
Mosher, J. I., 446
Moss, A. R., 143
Rev. C. B., 37
E. H., 449
K. N., 22, 25
Mrs. M., 693
W., 43
Mostert, L. C., 681
Mosvi, Sd. Y. H., 759
Motion, A. W., 87
Mott, N. F., 32, 41
R. A., 298
Mottistone, Lord, 345
Mottram, V. H., 198
Motwani, R. C., 735
Motzkin, Th., 815
Mouat, T., 23
T. B., 300
Moudgill, K. L., 797, 798
Moule, Rev. A C., 62
H. C. C., 48
W. R., 95
Moulik, P. N., 790
Moullin, E. B., 249, 262
Moulsdale, Rev. S. R. P., 83
Mounfield, J. D., 239
Mountain, E. D., 678
Mountford, J. F., 111, 320
Mountney, C. F., 33
Mouré, F. A., 547
Mousseau, J. A., 516, 517
Moutia, A., 744
Mowat, A., 826
A. S , 368
G., 368
R. B., 32
Mowbray, Sir G. R., 288
R., 89
Mowry, D. P., 492
Moxon, M. C., 506
Moy-Thomas, J. A., 253, 259, 265
Moyle, R. C., 346, 347
Moynihan, E., 428
Mozley, J. H., 174
Rev. J. K., 53
Muckle, Rev. J. T., 549
Mucklow, G. F , 232
Mudahar, Sir R., xxvi, xxix
Mudaliyar, A. L., 768
A. S., 764
B. M. L., 768
C. N. E , 768
M. K , 764
Muddle, H. O. S , 606
Mudie, A. D , 672
Mueller, P. W., 500
V. E. W., 551
Muhar, P. S., 759
Muhiuddin, Md. K., 783
M. G , 784
Muir, E. G., 213
G. D , 393
J., 396
K., 97
R. M , 660
W. E., 383
W. L., 467, 469
Muirhead, J. S , 256, 382, 386
Mukarji, S. N., 709
Mukerjee, L. N., 759
R. K., 757, 758
Mukerji, A. C., 718
D. P., 758
N. C. 718
P. D , 757
R. K., 762
S. N., 754, 755
U., 779
Mukharji, A. T., 779
H. C , 795
T. H., 795
Mukheree, G. C., 731
Mukherjee, B., 744
B., L.M.S., 741
D. N., 744
J. N , 740
S., 742
T., 743
Mukherji, B. B., 758
D. B., 795
K. C., 751
R. N., 795
S., 744
S. K., 741
Mukhtar, A. A., 755
Mulcahy, C. M., 626
Muley, D. S , 778
Mulholland, D. E., 552
H. P., 87
Muliyil, J. A., 768
Mulla, M , 731
Mullally, G. T., 213
Mullan, J. P., 736
Mullen, J. P., 140
Muller, D. O., 597
Müller, E., 451
H. J., 371
Mulligan, J. H., 397
Mullin, W. J., 633
Mulock, Rt. Hon. Sir W., 547
Mulvany, J. F., 598
Mumford, F. R., 341
P. B., 235, 237
W. B., 158
Munby, W. M., 100
Muniratnam, T. C., 764
Muniswami, K., 764
M. K., 726
Munje, R. H., 777
Muñoz Rojas, J. A., 50
Munro, A. F., 359
A. H. G., 90
A. R., 606
Sir D., 397
J. A. R., 261
J. W., 170
L. A., 532
Munroe, A. R., 453
Muranjan, S. K., 736
Murdoch, W. L. F , 627
Mure, G. R. G., 263
Murison, C A , 370
Murphy, A. L., 469
A. P., 607
B. E., 644
C. K., 429
E., 538
E. V., 607
G. E., 23
G. H., 469
H. A. G., 424
J., 432
Rev. J., 238
J. J. F., 409
Very Rev. J. M., 601
Rev. L. D., 764
M., 429
M., M.Sc., 429
N. R., 260
T. B., 539
Murray, A. E , 468
A G., 366
A. H., 658
A. L , 332
A. R., 194
B. E., 465
C. A. M , 661
E. F., 89
E. G. D., 489
G., 28, 40, 118
Hon. Sir G. J. R., 587
H. A., 81
H. R., 493
I., 395
I. B., 694
J., 335, xxvi
Miss J., 192
J. C., 694
J. E., 542
J. K., 605
J. L., 88
J. McN., 371
J. O. F., 63
K. A. H., 255, 261
K. D. B., 48
K. M. E., 63
L., 656, 667
L. H., 544
M. I., 658
M. M. A., 192
P. D. F., 192
R. H., 467
V. C., 403
Rev. W. H., 551
Murrell, E. B., 829
M., 373

Murrie, Mrs., 368
Murti, T. V. N., 731
Murty, G. V. S., 722
S. G. K., 722
Musamuddin, M., 783
Musavi, A. A., 783
M. H., 754
Musgrove, R. B , 493
S., 406
W. M., 506
W. W., 507
Muskett, A. E., 407
Muslim, Md., 795
Mustava, G., 777
Mutch, N., 207, 211
Muthuswami, B., 721
Mutter, G. N., 324
Mutton, A. F. A., 175
Myers, A. R., 113
C. R., 554
C. S., 180, 749
G. N., 52
J. E., 239, 242, 246, xxvii
K., 765
Myint, U., 808
Myleru, C. R., 726
Myles, H. L. P., 391
Mylks, G., 535
G. W., 535
Mynors, R. A. B., 250, 258
Myres, J. L., 156, 250, 263
J. N. L., 251, 259

NABARRO, D. N., 202
Nabi, S., 783
S. S., 715
Nadaraser, S., 820
Nadavi, A. B., 783
Nadeau, C., 516, 517
H., 513, 516
H. M.-D., 476, 480
J.-M., 514, 518
Naegele, C., 498
Naftalin, J. M., 98
Nag, K. C., 741
K. C., 754
U. C., 730
Nagabhushanam, K., 721
Nagaich, N , 755
Nagarkar, N. G., 779
Nagendranath, N. S., 722
Naidu, A. S., 767
K. A., 764
L., 785
M. R. R., 764
S., 779
T. V. R., 722
V. S., 777
Naik, D. B., 736
K. G., 735
Nainar, Md. H., 764
Nair, K. S. N., 766
Naish, Mrs. L., 295
W. A., 226
Najmud-Din, 789
Nambiar, P. P. S., 767
Nami, Sd. M. A., 717
Namier, L. B., 233
Nanavati, M. H., 777
Nance, J. T., 110
Nanda, S. C., 755
Nandimath, S. C , 735
Nanjundiah, H. S., 771
Naolekar, R. G., 778
Napier, F. H., 696
Napper, J. H , 85
Naqvi, A. N., 760
Narain, H., 756
H., Nagpur, 778
P., 759
R , 754
Narasimhaiah, P., 797
Narasimhaiya, A. N., 771
Narasimhaayyangar, C., 768
N. S., 765
Narasimhasastry, C. R., 772
Narasimhayya, P., 765
Narasingarao, A., 727
Narayan, L., 758
S., 737
Narayana, B , 794
T. S., 725
Narayanaayyar, P. A., 764
Narayanantampi, A , 797, 798
Narayanasvami, K. S., 727
Narayanasvamiayyar, S., 727
Narayanasvaminayudu, B. V., 726, 729
Narishkin, V., 258
Narke, G. G., 737
Narlikar, V. V., 730
Nasar, H. A. K., 714
Nascar, P. N., 778
Nash, A. W., 22
P., 547
W., 83
Nash-Williams, V. E., 322
Nat, B. S., 791
Natarajan, C. V., 772
Natesan, L. A., 744
Nath, P., 730
P., D.Sc., 730
R. G., 744
V., 789
Nattreass, F. J., 89, 90
Naud, Rev. Mother, 470
Naudé, F. K. te W., 661
S. M., 688
Navanitakrishnan, T. P., 727
Navaratnam, S. L., 823
Navlekar, N. R., 779
Nawaz, M. S., 784
Nayar, K. K., 768
K. S., 768
P. K., 764
Naylor, A. H., 406
H. D., xxvi
Nayudu, S. R., 767
Neal, J. H., 672
Neale, A. V., 24
J. E., 141
S. M., 239
Neame, H., 209
Neatby, H., 544
K. W., 451
Neaverson, E., 112
Nedungadi, T. M. K., 767
Needham, A. E., 192
Sir C. T., 229
H. A., 31
Needham, N. J. T. M., 44, 56
Needler, M. C., 551
Needs, F. E., 835
Neelakantam, K., 722
Neeson, S., 429
Neethling, A. K., 691
E. J., 689
J. H., 689
Negus, V. E., 153, 205
Neill, A. G., 634
R. M., 359
Rev. S. C., 53
Neilson, D. F. A., 205
J., 541
Neish, A. C., 532
Nel, G. C., 687
Neligan, G. E., 213
Nelson, A., 367
E. A., 598
M., 408
M. F., 112
W. E., 367
Neri, N., 233
Ness, A. R., 492
Nethery, S , 544
Nettleton, H. R., 177
Neumann, B. H., 324
G., 615
Z., 800
Neuschaeffer, W., 346
Neville, E. H., 289
H. A. D., 290, 292
J. T., 573
K. P. R., 445, 572, 575
Nevin, S., 207
New, C. W., 500
New Brunswick, Lt.-Gov. of, 525
New Zealand, Gov.-Gen. of, 630
Newall, H. F., 61
Newark, F. H., 406
Newberry, P. E., 109
Newbery, E., 658
Newbolt, Sir H., 287
Newboult, H. O., 251, 263, 266
Newby, H. V., 174
Newcomb, E., 96
W. D., 210
Newcombe, J. A., 555
Newell, A. N., 96
G. E., 175
M., 432
R. L., 237, 238
Newcomen, D. M., 244
Newfoundland, Gov. of, 827
Newing, R. A., 318
S. T., 32
W. J., 600
Newitt, D. M., 167
Newman, C. E., 216
F. H., 336
G., 671
I. V., 644
K. F., 587
L. F., 59
M. H. A., 48, 60
S. T. M., 87
Newsholme, H. P., 23
Newte, F. R., 350

Newth, H. G., 23
Newton, A. P., 156
J. D., 451
Mrs. L., 311, 320
R., 236
R. H., 366
T. F. M., 485
W. H., 143
W. S., 600
Ney, F. J., 445
Neyer, E., 137
Neyman, J., 148
Ni Maol-Chroin, C., 432
Niblett, W. R., 86
Nicholas, H. G., 260
S. D., 20
T. C., 61
Nicholls, A., 347
A., M.Sc., 596
G. E., 626
L., 822, 823
M. F., 213, 220
Nichols, E. W., 465
F. C., 35
J. E., 626
L. H., 451
N. A., 298
R. V. V., 485
Nicholson, D., 507
D. N., 372
F. C., 366
G. G., 614
G. W. de P., 210
H. H., 50
M. A., 544
M. N., 290
Rev. P. J., 539, 540
R., 117
R. A., 62
T. F., 557
W. C., 488
Nickerson, C. B., 465
J. L., 522
Nicol, B. M., 361
J., 226
R. M., 386
T., 150, 154
T. B., 616
W. D., 208
Nicolin, H., 826
Nicolson, Hon. H., 76, 338, 344
C. A., 367
Nidiry, A., 798
Niebuhr, N., 375
Nienaber, G. S., 672
P. J., 692
Nierenstein, M., 30, 32
Niesthe, F. W., 613, 618
Nigam, K. S., 758
Niklaus, R., 232
Nilakantasastri, K. A., 763
Nimmo, R. R., 629
Nirula, R. L., 777
Nisbet, A. F. R., 390
G., 678
J. W., 398
R. G., 383
Nivasarkar, G. N., 777
Niven, J. S. F., 388
Niven, W. D., 383
Nixon, D. G. C., 31
R. L., 474
Niyogi, J. P., 740
N., 795
P., 743
S. P., 736
Nizamuddin, Md., 783
Noad, A. S., 485
K. B., 617
Nobbs, D., 370
P. E., 484
Noble, A, 37, 41
C. E., 452
J A., 465, 469, 470
P. S., 107, 358
Nock, A. D., 362
Nockolds, S. R., 48
Noel, O., 516
Noiseux, F. O., 517
Nolan, J. J., 425
P. J., 425
T. J., 423
Nolin, J., 517
Noltie, H. R., 98
Non, L. Y. S., 832
Norbury, L. E. C., 213
Norman, F., 151
R. T., 81
Normandin, Rev. R., 529
Norris, F. K., 596
F. W., 22
H. W., 694
J. G., 596
Norrish, R. E., 139
R. G. W., 44, 55
Northfield, D. W. C., 213
Norton, H. W., 145
Norwood, Sir C., 266
G., 549
Notcutt, B., 673
Nott, H. C., 590
Nova Scotia, Bishop of, 474
Nowell-Rostron, Rev. S., 199
Nowlan, F. S., 461
Nundy, D. M., 810
Nunn, G. M., 628
J. P., 229
Nutt, J. D., 99
Nuttall, G. H. F., 76
H. C. W., 109
J. M., 234
Nutter, J. A., 491
Nyan, U. Ba, 810

Oag, R. K., 371
Oakden, J. P., 398
Oake, G. R, 217
Oakeshott, M. J., 47, 56
Oakley, C. A., 385
Oatley, C. W., 152
Obertello, A., 324
Obholzer, A., 688
O'Blenes, C., 447
O'Brien, D. G., 390
E., 414
Rev. F., 433
G., 425
G. W., 423
H. D., 484
O'Brien, H. D., F.A.C.S., 469
J. L., 596
M., 405
W., 433
O'Broin, T. P., 432
O'Brolchain, C, 433
O'Buachalla, L., 432
O'Callaghan, P., 425
O'Cinneide, R., 428
O'Connor, C. A., 826
C. E., 535
E. A., 605, 608
F. J., 413
F. J., M.D., 535
F. X., 535
H. G., 432
J. M., 425
R. J., 139
O'Dea, J. J., 648
O'Dell, A. C., 176
O'Donnell, Rev. J., 550
J. A., 590
T. F., 710
O'Donoghue, C. H., 370
E., 429
T., 429
O'Donovan, J. M., 430
W. J., 203, 214
W. J., M.B., 430
O'Dwyer, R., 424
O'Farrell, T. T., 426
O'Farrelly, A., 423, 424
O'Grady, S. C., 86
O'Hea, Rev. L., 269, 282
O'Hea-Cussen, V., 430
O'Keefe, Z., 827
O'Keeffe, Rev. D., 424
O'Kelly, J. J., 426
K. H., 424
W. D., 426
O'Kiely, C., 424
O'Leary, De L., 32
L., 429
O'Lochlainn, C., 424
O'Loughlin, J. L. N., 280
O'Mahoney, Rev. J. E., 429
O'Maille, T. S., 432, 434
O'Malley, C. C., 433
C. K., 662
G. B, 604
M. G., 433
O'Mara, T., 617
O'Neill, C. D. W., 257
Very Rev. J., 421
Rev. J. G., 421
J. J., 423
J. J., Canada, 486
O'Nolan, Rev. G., 421
O'Raghallaigh, T., 432
O'Rahilly, A., 428, 429
O'Reilly, J. J., 24
O'Riordan, G. F., 227
O'Searcaigh, S., 424
O'Shea, M. J., 430
O'Sullivan, G. F., 425
J. M., 424
Mrs., 432
P. M., 554
T. J., 595, 600
O'Toole, E., 414

O'Toole, Rev. W. B., 549
Occleshaw, V. J., 110
Ockleston, A. J., 326, 660
Ockley, L. L., 560
Odell, W. L., 173
Odgers, P. N. B., 247
Oertel, A. C., 591
H., 498
Oeser, O. A., 399
Offler, H. S., 55
Offor, R., 95
Offord, A. C., 60
Ogg, D., 40, 263
W. G., 360
Ogilvie, A. G , 89
A. G., B.Sc., 369
F. W., 411
L., 36
R. F., 372
W. H., 213
Ogston, A. G., 258
Oille, J. A., 556
Ojha, Damri, 717
Okill, J., 115
Old, C. L., 240
Oldfield, M. W. C., 102
Oldham, Mrs. H. W., 290
O., 672
W., 589
Oldroyd, G., 226
R. H., 759
Oliphant, J. N , 249, 281
M. L. E., 22, 59
Olitzky, L., 815
Oliveiro, C. J., 829
Oliver, D. T., 62
H. O., 694
R. A. C., 231, 242
W., 367
W. G. B., 85
Ollerenshaw, R., 236
Ollett, F. A., 36
Ollivier, M., 528, 529
Olson, P. J., 506
Olver, Sir A., 376
Oman, Sir C. W. C., 251, 256
Omer-Cooper, J., 678
Ong, E. H., 803
Onians, R. B., 191
Onions, C. T., 249, 262
Onslow, Earl of, 162
Ontario, Lt.-Gov. of, 572
Oosthuizen, P. M., 683
Opie, R., 252, 262
Oppenheim, A., 832
Oppenheimer, M , 323
Orchard, W. A., 625
Ord, B., 48, 57
Organ, S. L., 827, 828
Orgill, T. C., 709
Orhand, Y., 306
Orian, G , 826
Orkney, J. C , 358, 362
Orme, F., 298
Ormerod, H. A., 112
M. J., 507
Ormrod, F., 288
Ormsby, H. R , 180
Orr, A., 393
H., 452
Orr, H. R., 230
J., B Litt., 368
J., Ph.D., 386
Sir J. B , 359
J. H., 535
J. L., 388
J. W., 101
R. K., 107
Orr Ewing, J., 270, 271
H. J., 34
Orton, A. A , 634
Rev. A. S., 561, 570
D. V., 94, 290
H., 86
J. H., 114, 320
Orwin, C. S., 255, 257
Osborn, S , 295
T. G. B , 248, 262, xxvi, xxviii
T. W. B., 694
W , 103
Osborne, F. Fitz, 486
G. D., 615
J., 300
Rev. J. E. N., 608
M. S., 503, 504
R. G., 623
W. A., 604
W. F , 504
W. T., 447
Osmond, D. A., 36
Osselton, E. W., 88
Ostick, C. D , 230
Oswald, F , 340
Otago, Gov.-Gen. of, 633
Ottewell, A. E., 449
Otty, J. H., 361
Otway-Ruthven, A. J., 414
Ouellet, C., 477, 478
Oumet, A., 515
Oulton, Rev. J E. L , 416
Ouwerkerk, L. C. M., 765, 797
Owais, S. M., 714
Owen, A., 327
A. D. K., 380, 389
C. T. J., 832
D., 226
D. U., 116
E., 110
E., Ph.D., 457
E. A., 318
E. T., 549
F., 451
G , 316
G. D., 117
G. N., 188
L. G., 808
L. V. D., 340
Rev. M. B., 308
R. D., 333
Rev. R. H., 258
T., 557
Ower, J. J., 453
Owst, G. R., 46, 55, 69
Oxley, O. P. J., 673
T. A., 166
Oxner, B. G., 542
W. C., 469
Oza, K. L., 737
Ozburn, R. H., 561
PAGE, Rev. E. G., 79, 81, 82
J. L., 800
Packer, J., 638
Packham, A. L., 215
Padmanabhaiyer, K. S., 798
Padmanabhapillai, K. P , 797, 798
Pafi, W., 694
Pagano, Rev. S , 528, 529
Page, A. B. P., 170
B. S., 85
C. M., 213
D. L., 250, 259
F. H., 467
R., 288
R. G., 346
Pahade, J. S., 778
Pain, A. B , 102
Painchaud, P., 480
Paine, C. G., 299
H. H., 694
S. G., 173
Painter, G. D., 124
Paish, F. W , 179
Pakeman, S. A., 820
Pakenham, Hon. F. A., 259
Pal, D., 745
H C. D., 810
N. C., 751
Palacios, Rev. G., 736
Palanappapillai, T. P., 727
Palit, H. D., 778
Pall, G., 486
Palmer, A., 617
A. B. A., 618
A. C., 208
C. E., 644
E. F., 561
F. P., 23
J. L., 312
L. R., 231
Mrs., 64
R., 111
W. G., 44, 59
Palocarem, Rev. J., 766
Panchapakesasastri, P., 727
Panday, K. D., 778
Pande, M., 731
R., 795
R. B., 730
S. A., 717
Pandharipande, S. L., 778
Pandit, B. S., 778
D. V., 735
K. G., 737
M. K., 784
Panditrao, D. B., 779
Pandya, K. R., 709, 776
Paneth, F. A., 81
Panikkar, M. R. V., 768
P. R. P., 797
Panjab, Gov. of, 787
Panneton, P., 516
Pannett, C. A., 213
Pannirukaiperumalmudaliar, C., 798
Pant, D., 760
Pantin, C. F. A., 50, 62
W. A., 251, 264
Panton, J. R., 550

Panton, R. C., 20, 27
Papenfus, E. M., 693
Papenfuss, G. F., 658
Papworth, H. C., 764
Pâquet, Achille, 479, 480
Albert, 479
Mgr. L. A., 483
Parameswaran, H., 797
Paranjpe, A. S., 736
D. R., 777, 779
G. R., 736
P. M., 779
Paré, A., 517
Parent, A. M., 478
J.-M., 478
Pares, Sir B., 162
R., 247, 257, 264
Parma, P. K., 795
Parizeau, T., 516
Park, H. E., 168
Parke, H. W., 412, 413, 414, 418
Parker, A. A., 56
A. O., 332
B. N., 158
C. F., 298
E. W., 552
G , 265
Rev. G. F., 657
H. L., 416
H. M. D., 262
H. T., 623
J., 347
J. L., 268
N. H., 501
R. E., 626
W. H., 76
Parkes, A. R., 30
G. D., 268
Parkin, B. S., 684
M., 298
Parkinson, G. S., 204
J., 207
J. F., 554
Parmanand, 718
Parmar, V L., 735
Parnell, I. W., 493
T., 606
Parnum, D. H., 98
Parrington, F. R., 50, 72
Parris, S. C., 323
Parrott, A. H., 24
Parry, D. H., 223
E. J., 313, 320
E. O., 326
H. Ll., 336
J. R., 332
R. H., 35
R. J., 318
R. W., 318, 319
T., 315, 318
Parry-Williams, T. H., 313
Pars, L. A., 48, 56
Parshad, I. D., 788
Parsloe, C. G., 164
Parsonage, F. H., 238
Parsons, A. L., 552
C. W., 386
H. C., 557
Sir J. H., 209
Parsons, L. G., 23
Parthasaradhi, S , 721
Parthasarathi, S., 765
Parthasarathi Ayyangar, M. O., 763
Partington, J. R., 174
Parton, H. N., 638
Partridge, A. C., 681
P. H., 615
Parvatibai, Maharani S., 797
Pascal, R., 47, 58
Pasricha, C. L., 742
Passant, E. J., 47, 61
Passé, H. A., 820
Passey, R. D., 100
Passmore, J. A., 615
J. B., 294
Pastor, A. R., 153
Pasupathi, V., 726
Patail, E. M., 810
Patch, C. J. L., 791
F. S., 491
Patchin, G., 228
Patel, J. R., 735
J. S. K., 777
K. P., 777, 778
Paterson, A., 321
A. B., 454
D. D., 834
D. H., 204
D. S., 295
J. A., 191
J. D., 184
J. M., 634
J. N., 331
J. R., 374
N. F., 695
R. S., 229
T. T., 62, 72
W., 394
W. G. R., 389, 390
Patey, D. H., 213
Pathak, K. K., 718
R. D., 778
S. N., 779
Y. M., 778
Pathakji, M. J., 737
Pathy, C. S. K , 189
Paton, D. A., 289
G. C. H., 386
G. W., 137, 182, 599, 603
H. J., 252, 260
J., 370
J. L., 827
Patravali, D. B., 735
Patrick, A., 401
I., 490
L. B., 295
M., 450
Mother, 601
W., 388
Patten, R. H., 488
Patterson, A. W., 563
C., 368
C. F., 543
E. J., 338
E. L., 229
F. W., 446
G. C., 552
J., 210
Patterson, N., 205
T. S., 383
W H., 174
W. J., 491
Pattison, B., 141
J. S., 368
Patton, D. R., 484, 488
R. T., 595
W. S., 123
Patwardhan, D. S., 779
G. S., 731,
H. W., 777
R. P , 735
V. P., 738
Pau, Y. L., 803
Paul, A. S., 151
E. W., 558
G. A., 598
J. I., 394
J. N. W., 778
M., 823
R. G., 35
S., 767
Pauli, W., 76
Pavylychenno, T. K., 543
Pawson, H. C., 88
Payeur, L.-R., 480
Payment, J., 478
Payne, G., 297
Payne-Smith, Rev. W. H., 259
Pe, Tun, 808, 809
Peabody. J. A., 468
Peace, K. M., 63
T. R., 249
Peacock, A. D., 400, 403
D. H., 807
Sir E. R., xxv
M. A , 552
R., 97
Peake, A. H., 51
E., 523
Pear, T. H., 107, 234
Pearce, C. C., 288
H. G., 617
Pearl, R., 137
R. T., 184
Pearn, B. R., 808
Pearsall, W. H., 107, 295
Pearse, G. E , 692
H. L., 170
L. E. B., 169
R., 558
R. W B., 170]
Pearson, C. E., 87
E. S., 144
F. Y., 332
G. F., 473
L. I. C., 473
N., 20, 22
R. L., 289, 292
T. G., 167
W., 416
W. J., 204, 220
Peat, S , 20
Peate, I. C., 315, 320
Peck, A. D., 266
A. L., 45, 54
E. H., 265
Mrs., 340, 341

Peck, W. J., 225
Peddie, G. A., 645
W., 399
Peden, Hon. Sir J. B., 616, 620
Pedley, E., 237
F. G., 491, 492
Pedoe, D., 346
Peebles, A., 460
Peel, J. H., 208
R. F. E. W., 86
T., 57
Sir W., xxvi
Peers, Sir C. R., 163
E. A., 112
R., 342
Peet, E. L., 88
Peffers, R., 659
Peghaire, J., 515
Peiris, M. V. P., 823
Pelan, M. McL., 326, 406
Pelham, R. A., 21
Pelland, L., 478, 479
Pelletier, Rev. A., 527
Rev. Mgr. F., 481
G., 518
G.-L., 479
Canon J. R., 478
L., 479
N., 476
R., 476
Rev. S., 529
Pellew, L. J. T., 589
Pellissier, Rev. G. M., 682
S. H., 669
Pellizzi, C., 142
Pells, E. G., 658, 664
Pelluet, D., 465
Pemberton, H. S., 116
R. E. K., 572
Pender, J., 429
Pendril-Davies, D., 807
Pendse, G. G., 735
S. D., 778
Penfield, W. G., 489
Penman, G. G., 209
Penn, W. C., 110
Pennell, V. C., 58
Penney, W. G., 169
Penne, A. M., 393
Pennman, T. K., 281
Pennington, S., 294
Pennycuick, S. W., 587
Penrose, L. S., 181
Penson, L. M., 127, 192
Penston, N. L., 150
Penzol, P., 98
Pépin, J. R., 516
Pepler, G. L., 246
Percival, A. L., 51, 56
E., 638
E. G. V., 367
G., 323
G. H., 372, 374
Sir H. F. P., 259
R. T., 298
W., 246
Percy, Lord Eustace, 78, 85
D. M., 559
Percy-Dove, Mme., 608
Peregrine, E. P., 115
Pereira, C., 809
Pereira-Mendoza, V. M., 240
Peren, G. S., 648, 649
Perera, H. S., 148
Perham, M. F., 248, 270
Perkins, C. H., 638
F. A., 605
G., 209
J. B. W., 800
Perlman, S., 324
Perrault, A., 515
J. F., 517
Perrett, G. B., 47, 63
W., 141, 143
Perrier, Abbé A., 515
H., 518
Perrin, K. E., 335
Perron, E., 480
Perry, A., 635
A. C., 213
A. J., 504
B. P., 390
C. B., 34
H. G., 446
J., 153
R. R., 606
Rev. W., 368
W., 618
W. J., 139
Perth, Lt.-Governor of, 626
Peterkin, G. A. G., 374
Peters, A. T., 103
B. A., 33
B. G., 204
R. A., 248, 266
Petersen, J. N., 489
N., 662
P., 686
Peterson, J. M., 324
Petigara, N. K., 735
Petit, Rev. J. E., 70
Petitclerc, L., 480
Petrie, A., 672
A. A. W., 208
A. H. K., 590
G. F., 202
J. M., 402
Petrow, V. A., 174
Pett, L. B., 449
Pettitt, G. A. C., 22
Pettoello, D. E. S., 48
Peyton, S. A., 288, 289
Peyton Rous, F., 25
Pflaum, H., 815
Pflaumer, R. E., 161
Phaneuf, A., 518
Phatak, B. R., 776
Phear, H. W., 51, 56
Phelan, G., 554
Phelps, W., 259
Phemister, T. C., 358
Philip, J. C., 173
J. M., 295
J. R., 371
L., 20
Philips, C. H., 187
E., 587, 588
H., 37
Philipsz, L., 768
Phillips, C. W., 63
Rev. D., 307
E. D., 31
E. G., 262
E G., Wales, 318
E. K., 543
E. M., 312
F. C., 48
G. E., 618
G. M., 333
G. R., 201
H. J., 40
I. W., 385
J., 693
J. B., 485
J. G. P., 208, 215
J. R. E., 313
O. H., 223
P. D., 598, 599
R., 313
S. W. C., 109, 122
W., 332
W. A., 414
W. E., 672, 673
W. J., 88
Philp, B. M., 493
Philpot, H. P., 731
J. St. L., 258
Philpott, S. J. F., 144
Phipps, I. F., 591
Piaggio, H. T. H., 341, 343
Pianazzi, Very Rev. A., 745
Picard, L., 814
Pichette, H., 480
Pick, I. B., 37
M., 194
Pickard, Sir R. H., 125
Pickard-Cambridge, A. W., 306
W. A., 268
Pickbourne, H., 339
Picken, D. K., 601
R. M. F., 331
Pickering, A. H. G., 340
A. L., 588
F. P., 233
J. W., 153
Pickford, R. W., 385
Pickles, F., 103
W., 180
Pickthorn, K. W. M., 18, 47, 54
Pickup, E., 119
Pickworth, F. A., 26
Picton, Æ., 112
Piddington, R. O., 357
Pidduck, F. B., 259
Pienaar, E. C., 687
H. J., 687
P. de V., 692
Pierce, A. W., 591
T. J., 318, 319
W. O'D., 404
Piercy, N. A. V., 174
Pierls, R., 22
Piersol, W. H., 548
Pigeon, Rev. I., 527
L.-P., 478
Pigou, A. C., 45, 57
Pike, Rev. H. W., 188

Pike, J. L., 371
K. A., 591
Pilcher, Mrs., 464
R. S., 213
Pillai, A. R., 764
C. K. K., 764
C. S. G., 768
K. P., 809
M. J. S., 768
Mrs., 755
N. K., 765
V. K. A., 764
Pilley, J. G., 31, 41
Pilon, H. J., 518
Pinard, W. J., 198
Pinchbeck, I., 192
Pineau, M.-A, 476
Pineault, J. A., 520
Pink, E. N., 375
R. C., 406
W. L., 696
Pinkard, F. W., 20
Pinkerton, D. O., 363
Pinsent, A., 311
Pinto, C. F. X., 823, 824
V. de S., 40, 340, 349
Piper, C. S., 591
F. E., 588
R. W., 175
S. H., 32
Pippard, A. J. S., 167
Pirie, G. R., 567
J. W., 383, 385
N. W., 44
Pisharoti, P. R., 764
Pitcher, N. C., 452
Pithawala, M. B., 737
Pitman, E. J. G., 623
Pitt, A., 553
Pitts, A. T., 214
Pizer, N. H., 184
Plamentaz, J. P., 257
Plank, R., 686, 700
Plant, A., 179
A. J., 132
M. M. T., 194
S. G. P., 248
Plaskett, H. H., 248, 264
Plaskitt, H., 53
Platnauer, M., 250, 258
Platt, A. E., 589
A. P., 110
G. H., 240
H., 229, 236
J. I., 312
K. H., 731
R., 299
Platten, Rev. T. G., 765
Pleasance, R. E., 298, 300
Plimmer, R. H. A., 203
Plowman, E., 785
Plucknett, T. F. T., 223
Plumb, J. H., 57
Plumbe, W., 744
Plummer, F. E., 681
N. S., 153, 207
Plumptre, A. F. W., 554, 603
C. M., 767, 768
Po, C. K., 803
C. P., 804
Po, U., 804
Pocock, G., 338
L. G., 638
W. A., 697
Poddar, T., 742
Poh, K N., 803
Pohl, R., 20
Pohlamn, P. H., 607
Poisson, J. R., 384
Polanyi, M., 230
Pollak, H. P., 693
W., 694
Pollard, A. F., 164, 170, 257
A. G., 167
M. J., 659
S., 48
T. R., 639
Pollit, A., 139
Pollock, Rev. C. A. E., 54
H. S., 533
Polotzky, H. J., 815
Polson, C. J , 101
W., 226
Pomroy, H. R., 589
Ponnambalam, A. M., 772
Ponniahpillai, K., 727
Ponsford, A. P., 88
Ponsonby, G. J., 181
Pont, D., 683
Pool, A. G., 296
E. M., 327
J. Hope, 90
Poole, A. L., 266
D. J. L., 271
E. G. C., 263
G., 87
H. G., 140
J. H. J., 414, 415
R., 111
Pope, A., 785
A. H., 324
E. L., 452
J. A., 58
M. K , 232
Rev. R. M., 345
Sir W. J., 44, 60
Poplai, S. L., 755
Popper, K., 639
Popple, M. A., 608
Porritt, A. E., 213
Porteous, A. J. D., 111, 380
C. A., 490
J. W., 452
Rev. N. W., 369
W. J., 635
Porter, A. M., 561
C., 204
C. R., 20
Mrs. H. K., 170
J. W., 409
Miss W. H., 790
W. H., 428
Portland, Duke of, 339
Portus, G. V., 588
Portway, D., 51, 59
Postan, M. M., 47, 58
Postma, F., 675
J., 675
Potgieter, J. T., 689
Potter, C., 170
Potter, D. C., 498
G. R., 296
H., 154, 223
H. H., 32
H. R., 562
H. S. A., 359
J. A., 110
J. I., 426
J. M., 522
K. R., 367
S., 346
S. M., 176
Potts, A. E., 543
L. J., 46, 59
Potvin, R., 479
Poulet, Rev. D., 529
G., 368
Pouliot, A., 477, 481
Poulton, C. J. R., 693
Sir E. B., 261
E. P., 207
Pounder, I. R., 552
Poupart, Rev. H., 527, 528, 530
Poussin, C. de la V., 137, 148
Povey, K., 109
Powar, B. L., 778
Powe, A. B., 614
Powell, A. G., 340
C. F , 32
D. A., 332
D. P., 345
E. C., 827
F. C., 48, 56
H. C., 683
H. M., 251
I. G., 194
J. E., 614
J. F., 324
P. H., 639
R. E., 491
W. R., 473
Power, A. D., 150
E. E. le P., 180, 256, 326
J. J., 467
M., 432
Powicke, F M., 251, 264
Powles, G. R., 644
Pownall, M., 299
Praagst, H. F., 600
Pradhan, M. C., 795
Prahlad, Krishna, 755
Prain, Sir D., 834
Pramanick, R. D., 758
Prankard, T. L., 288
Prasad, B., M.Sc., 794
B., 795
B. N., 718
Beni, 718
Bisheshwar, 718
D., 795
Gorakh, 718
I., 718
J., 794
Sir J., 754
Jwala, 730
Jwala, Ph.D., 779
K., 759
K., Patna, 794
M., 736

Prasad, M., Benares, 730
M. M., 730
R. S. R., 762
S., 717
S., Patna, 794
T., 758
T., Patna, 795
Prashad, B., 795
S. P., 795
Pratt, C. A., 166
E. J., 549
Pratt-Nickels, A., 693
Preece, A., 103
C. T., 22
Préfontaine, G., 513
Preidel, E. E., 169
Prem, Chand, 755
Prendeville, P. L., 425
Prentice, J. H., 407
Prescott, J. A., 587, 590
J. C., 86
Preshaw, A. S., 623
Prest, W., 404, 596
Prestige, G. L., 256
Preston, A. W., 457
E., 298
J. M., 239
R. A., 323
R. D., 95
W. W., 452
Prestwich, J. O., 265
M. F., 673
Pretious, E. S., 460
Pretorius, J. C., 669
S. J., 687
W. J., 689
Previté-Orton, C. W., 47, 60
Prévost, G., 513
J. A., 479
Preziosi, Cont. L., 801
Price, A. G, 591
A. T., 169
D. E., 101
F. D., 336
H. H., 251, 264
H. W., 555
I. P., 326
J. A., 100
M. H. L., 62
N. L., 33
P. S., 97
R. M., 557
T. Slater, 375
W. C., 44, 62
W. T., 37
Prichard, A. A, 333
Prideaux, E. B. R., 339
Rev. S. P. T., 37
Prider, R. T., 627
Pridie, K. H., 35
Priestley, B. A., 289
G., 103
H., 613
J. G., 254
J. H., 95
R. E., 19, 604, xxv
Priestman, B., 525
Primeau-Robert, A., 498
Primrose, Rev. J. B., 736
Prince, A. E., 534
Rev. S. H., 466, 474
Pringle, J. W. S., 50, 57
S., 416
Prinsloo, C. W., 680
Prinz, J., 659
Prior, A. M., 145
L. E., 341
Pritchard, E. A. Blake, 181, 207
G. B., 215
J. E., 490
J. J., 139
Procter, E. E. S., 251, 271
Procter-Gregg, H., 231, 234
Proctor, A. H., 216
R, 453
R. E., 198
Rev. W. C. G., 416
Prosser, D. C., 244
Protheroe, H. T., 298
Proudman, J., 113, 119
Proulx, M., 476
Prowse, I. B., 184
W. A., 82
Prud'homme, E., 517
Pruvôt, Rev. C., 765
Pryde, G. S., 384
J., 324
Pugh, B., 103
R. W B., 525
W., 658
W. J., 232
Pujari, S , 794
Pullar, E. M., 600
Pullen, A. R , 683
Pulleyne, Mrs., 785
Pulvertaft, R J. V., 210
Punnayya, K. V., 721
Punnett, R. C., 46, 55, 72
Puntambekar, S. V., 730
Punvani, M. G , 737
Purcell, P. F., 423
R. H., 167
Purchon, W. S , 322
Purdie, D , 57
E., 192
Puri, A. A., 714
Purkayastha, N. C. D., 808
R. M., 750
Purohit, N. B., 737
Purser, G. L., 358
J., 413, 418
J. W. R., 383
Purushottam, T. A., 722
Purves, J., 369
Purves-Stewart, Sir J., 207
Purvis, O. N., 170
Pusey, H. K., 253, 268
Pustienne, A., 515
Puxley, P., 546
Pybus, F. C , 90
H. J., 64
Pye, M. W., 31
N., 232
Pyefinch, K. A., 342, 343
Pyke, A. J., 542
Pyle, W. F., 414
Pyne, G. T., 429
Pyrah, L. N., 98
Qadir, M. A., 782
Sd A , 785
Qadri, G. M., 783
Sd. A., 783
Qanungo, K. R., 751
Qazi-Fazi-i-Haq, K S , 788
Quance, F. M., 542
Qu'Appelle, Bp. of, 544
Quaritch-Wales, H. G , 188
Quarrell, A. G., 298
Quastel, J. H., 322
Quayle, G., 95
T., 708
W. C., 808
Quddus, Kh. A., 783
Quee, L. E., 804
Queen Elizabeth, H.M., 176
Queen Mary, H.M., 176
Quick, B., 600
G. E., 37
Rev. O. C., 81
Quiller-Couch, Sir A. T., 46, 56
Quin, D G., 599
E. G., 416
J. I , 684
Quinlan, F. M., 554
J. B., 684
Quinn, D., 346
Rev. J. E. G., 269
Quintin, A.-D., 518
Quodling, F. M , 615
Qureshi, A. I., 782
I. H., 754, 755
M., 782
M. L., 754
Qutubuddin, Qari, 783

Rabat, J., 520
Rabinowitch, I. M., 489, 490, 492
Rabkin, W., 661
Racine, G., 480
Rackham, H , 53
Radcliffe, G. R. Y., 263
Radcliffe-Brown, A. R., 53, 137, 182, 247, 257
Radford, A., 339
P., 596
Radhakrishnan, Sir S., 36, 254, 730, 741, xxvi, xxix
Radloff, E. M., 694
Rado, R., 297, 305
Rae, H. J., 361
J. J., 549
R., 290
W. J., 543
Raeburn, J. R., 255
Rafael, R., 736
Raff, J. W., 599
Raffi, A., 162
Rage, G. K., 736
Raghavaayyangar, R., 727
Raghavachariar, V., 778
Raghavan, M. S., 723
T. S., 726
Raghavarao, Bh. S. V., 722
Raghaviah, W. B., 777
Raghinatha, R. G. S., 772
Raghunathaayyangar, N., 768

Raghuvira, 788
Ragland, S. P., 723, 726
Ragunandan, Lal, 757
Rahim, M. A., 776
S. A., 784
Rahimullah, M., 783
Rahman, A., 754
H., 713
Hazifur, 714
K., 782
K., M.B., 810
M. J., 782
M. W., 783
Md. N., 717
S. A., 784
S M., 794
W., 783
Rai, Ganpat, 754
Raikes, H. R., 692
Raisin, C. G., 143
Raison, C. A., 24
Raistrick, A , 86
H., 202
Raithby, G. E , 561
Raj, H., 788, 790
J. S., 807
M., 788
Raja, C. K., 763
Rajagopalaayyangar, M. R., 726
Rajan, T. P., 721
Rajasingham, A. S., 822
Rajendranath, 755
Rajeswaran, C. D., 764
Rajnath, 731
Raju, P. T., 722
S. P., 784, 785
Rajwade, V. K., 776
Rakshit, A. C., 744
Ralegh-Radford, C. A., 335
Rallan, S. R., 734
Ralph, J. D., 572
Ram, Behari, 755
M., 789
R., 710
Sita, 788
Sri, 755
V. S., 756, 759, 762
Rama Rao, L., 771
Ramachandarao, S., 727, 729
Ramachandraayyar, P. C., 764
Ramage, D., 89
G. R., 317
Ramakrishnaayyar, V. G., 726
Ramakrishnan, K. C., 763
S., 767
Ramakrishnareddi, A., 728
Ramakrishnayya, K., 764
Ramalhete, B., 112
Ramamurti, B., 727
Raman, Sir C. V., 722, 818
Raman Nayar, M., 758
Ramanatham, P. S., 779
Ramanathanchettiyar, L. P. K. R., 727
Ramanujachariar, R., 727
Ramarao, S., 722
Ramasubbasastri, S., 727
Ramasvamisastri V. A., 727
Ramaswami, C , 768
E. K., 771, 773
P , 721, 723
V., 721
Ramaswamiaiyar, Sir C. P., 797
Ramavarma, Sir B , 797
Ramdas, E. J , 735
Ramji, L., 754
Ramsay, A. B., 57
A H., 597
G. A., 574
G. D., 268
H , 633
J., 394
J. A., 50, 59
R., 544
V. B., 493
W., 541, 544
Ramsden, D. C., 102
W., 264
W. C., 413, 416
Ramsey, A S., 57
Ranade, R. D., 718
Randall, J., 627
O. R., 695
Randell, J. T., 40
Randles, J. E. B., 31
Randon, L. A., 800
Rane, M. B., 731
Rangachari, T. K., 727
Ranganathan, S. R., 763
Rangarao, K. S., 778
Rangaswami, K., 726, 727
S., 722
Rangaswamiayyar, M. A., 768
Rangaswamy, R. B. V. K., 733
Rangaswamyaiyangar, K. V., 730
Ranjan, S., 717
Rankin, A. C., 452
J C., 407
J. S., 394
M. T., 368
Rev. O. S., 368
Rankine, J., 468
Ranner, S. C., 217
Ransome, G. A., 829
Ranston, H., 641
Rao, A. R. K., 722
A. S. K., 764
A. V., 725
A. V., Lucknow, 758
B. R., 723
B. S., 818
C. V. H., 788
D. K. B., 783
G. R., 767
I. R., 722
I. S. R., 782
J. C. K., 765
K. A., 764
K. N., 726
K. R., 722
K. S., 723
K. V., 768
P. R., 765
R. S., 783
Rao, S. H., 765
T. S. N., 721
V. G., 735
V. K. R. V., 725, 735
V Y., 784
Raper, H. S., 234
R., 86
Raphael, C., 255, 260
Rapinat, Rev. A., 765
Rappard, W. E., 182
Rapson, E. J., 76
W S., 658
Rashead, G. D., 765
Rashid, S. A., 714
Rastall, R. H., 54
Ratcliff, Rev. E. C., 255, 265
S. C., 142
Ratcliffe, J. A., 49, 61
Rathbone, E., 18
Ratnam, P., 721
Ratnasuriya, M. D., 187, 189
Rattenbury, R. M., 45, 62
Ratter, A., 114
Rattray, G., 395
Rau, G., 818
G. R. D., 767
K. B. K., 818
Rautenbach, C. H., 682
Raval, A. M., 734
Raven, C., 115
Rev. C. E., 45, 54
Rev. E. E., 60
E. J. P., 358
R. A., 227
Ravergne, N., 479
Raw, F., 21
S. C., 90
Rawcliffe, G. H., 115
Rawidowicz, S., 187
Rawlinson, H. E., 498
H. G., 286
J. H., 118
R. E., 449
Rawson, D. S., 541
Rawsthorne, F., 238
Ray, B. B., 741
B. K., 751
C. H., 741
J. N., 787
M., 750
M., D.Sc., 742
N., 744
Nepalchandra, 744
P. R., 740
S. C., 742
S. N., 730
W., 589
W. H. B., 32
Raybould, E. H., 606
S. G., 104
Raychaudhuri, H. C., 740
Rayleigh, Rt. Hon. Lord, 166
Rayment, H. M. L., 677
Raymond, L. C., 492
W. O , 457
Rayner, H. H., 237
N., 541
J. G., 544
P. H., 606
Raynor, R. E., 406

Rayss, T., 814
Raza, S. M., 714
Rea, G. W., 541
R. L., 409
Read, F. M., 599
F. O., 677
H. H., 107, 124, 167
J., 305, 397
T. T., 102
Reade, T. H., 357
Rearden, J. P., 428
Reavely, G. H., 573
Reay, R. H., 91
Recknagel, A. B., 461
Reddaway, W. B., 54
W. F., 57
Reddiar, K. R. G., 768
Reddiyar, V. V., 763
Reddy, C. R., 721
Redford, A., 231
Redington, G., 37
Redman, R. O., 60
Redmond, F. A., 803
Reed, A. W., 151, 154
G. B., 535
Sir J., 78
S. C., 486
Reedman, J. N., 693
Reekie, J., 370
Rees, A. D., 314
F. G., 313
J., 322
J. F., 322
J. M., 317
J. W., 234
M. G., 257
M. R., 194
R., 262
T. K., 327
W., 323
W. J., 19
W. J., M.Sc., 298
W. S., 306
Reeve, E. F., 116
G. W., 804
Reeves, H. G., 202
J. C., 221
M. E., 271
Regan, L. W. A., 226
Rehman, M. B., 735
Reich, K., 816
Reid, A., 672
C., 211
D. A. G., 239
H., 117
J., 357
J. E., 555
J. W., 468
L. A., 87
T. B. W., 232
W. J. S., 237
Reifenberg, A., 814
Reilley, H. E., 487
Reilly, D'A. P., 257
E. E., 572
J., 428
Reim, E. P., 672
Reimann, A. L., 606
Reimers, J. H. W., 689
Reinecke, O. S. H., 689
Reinhold, H., 369
Reitz, R., 683
Relton, Rev. H. M., 199
Rempel, J. G., 544
Renaud, Rev. E., 527
J. A., 517
Rendell, W. R., 62
Renier, G. J., 141, 142, 191
Rennie, A. M., 362
E. J. C., 597
J., 300
J. B., 387
J. V. L., 678
W., 383
Renouf, L. P. W., 429
Renton, J. M., 388
Renwick, J., 296
W. L., 79, 86
Retief, A., 676
Revell, A. M., 454
D. J., 456
G., 433
Revill, I., 606
Rey, C. E., 186
Reyburn, H., 659
Reynard, H., 198
Reynolds, B. A., 649
D. L., 82
F. E., 388
J. H., 627
R. J., 212
S. J. R., 42
W. V., 296
Reza, Sd. M. S., 736
Rezwi, T., 743
Rhea, L. J., 490
Rheuben, R. P., 607
Rhind, D., 810
Rhoden, H. G., 51
Rhodenizer, V. B., 446
Rhodes, A. J., 371
E. C., 181
F. W., 184
F. W. W., 807
H. W., 638
V. H., 98
W. F., 661
Rhys, O., 271
O. L., 333
Ribbands, C. R., 386
Ricaldone, Rev. Fr. J., 745
Rice, C. H., 718
C. R., 507
D. Talbot, 161, 286, 367
H. V., 507
Rice-Oxley, K., 167
L., 268
Rich, E. E., 47, 59
Richard, L. A., 477
M. E. J., 504
Richards, A. I., 692
C. S., 693
D. A., 313
E. H., 224
F. J., 139, 170, 187
G. E., 558
G. M., 328
H. A., 201
H. C., 606, 608
I. A., 46, 58
Richards, O. W., 152, 170
P. W., 44
R., 361
Rev. R. H., 350
T., 307, 317, 318
Richardson, A. E., 145
A. H., 561
A. R., 328
A. V., 457
D., 225
D. H., 225
E. G., 145
E. G., Durham, 87
G. T., 103
G. W., 97
H. O. W., 114
J., 532
J. B., 178
J. H., 96, 104
K. C., 139
L., 461
L. de C., 21
L. G., 342
L. J. D., 323
M. M., 335
S. G., 103
W. A., 340
W. L. C., 562
W. R., 613
Riches, E. W., 213
Richey, M. F., 194
Richmond, H. A., 506
H. W., 56
Sir H. W., 55
I. A., 86, 389
N. MacD., 606, 608, 642
O. L., 367
S. O., 460
Richter, L., 466
Rickard, B. C., 175
S. H., 808
Ricker, A., 447
Rickett, D. H. F., 257
Ricks, E. M., 346
Riddell, J. G., 383
W. F., 504
Riddehough, G. B., 459
Riddet, W., 648
Riddett, S. A., 215
Riddoch, G., 207
Ride, L. T., 804
Rideal, E. K., 44, 62, 107
Rideout, Mrs. E. H., 109
Ridington, J., 459
Ridler, H. A., 617
Ridley, Rev. M. R., 249, 257
Viscount, 85
Riese, L., 550
Riffkin, J., 21
Rigal, Rev. J. L., 421
Rigby, C. A., 672
C. M., 142
Rigg, S. K., 35
Rigney, T. J., 535
Riley, A., 241
C. W., 561
H. L., 85
W. A., 335
Rimmer, T., 611

Rındl, M., 669
Rınfret, Hon F., 518
Rıng, Mrs., 803
Rıngrose, E. C D., 605
Riopel, P. E., 518
Riordan, E. M., 428
M. J., 430
Riordon, M. G., 408
Risdon, F. E., 559
F. S , 511
Rishworth, F. S., 432
Risi, L., 477
Rissık, H., 168
Ritchie, A. D., 234
D. J. B., 403
H. J., 617
J , 320, 370
J. E., 362
L. D., 633
M., 306, 367
Prof., Cape Town, 651
R. I., 635
R. L. G., 21
S. G., 469, 470
W. L., 491, 492
W. T., 374
Ritson, F. W., 80
J. A. S., 169
Rivard, A., 479
J.-H., 513, 517
Rivett, E. H., 765
L. C., 208
Rivlin, J., 815
Rixon, F. W., 31
Rizabey, A., 189
Rizavi, Sd. M. H., 758, 759
Rizvi, S. A. L , 782
S. M. T., 714
Roach, W. A., 224
Roaf, D., 259
H. E., 111, 114
Robb, C. A., 452
J., 99
Jas., 355
J. J., 401
R. A., 384
Robb-Smith, A. H. T., 254
Robbins, L., 179
Robert, Mgr. A., 476, 478
Roberts, A., 83
A. L. N., 413, 416
A. L., 103
A. R., 488
B. J., 307
C. H., 251, 266
C. H., Exeter, 336
Rev. D. P., 308
D. W., 85
Rev. E., 308
Rev. E. H., 78
E. J., 318
F. H. S., 608
G., 328
G. L., 300
I., 236
J., 383
J. A. F., 320
J. C., 339
J. E. H., 213
J. G., 118
Roberts, J. G., M.B., 382
J. K., 44
J. S., 552
M., 500
M., S.A., 678
O. F. T., 357
P. E., 268
R. A , 319
R. E., 29, 109, 117
R. P. F , 54
R. W., 114
S C., 58
S. H., 615
T. H , 626
T. T., 614
W. H., 117
W. J., 316, 323
W. R., 24
Robertson, A., 64
A., D.Sc., 33, 38
A., Aust , 607
A., Ph.D., 110
A. D., 574
A. E., 560
A. J., 21
B. S., 397
Sir C. G., 257
D., 33
D., Scot., 362
D. E., 558
D. F., 606
D. H., 45, 61, 179
D. S., 44, 61
E , D.D., 239
E. D. S., 376
E. M., 374
G. C. A., 99
G. D., 205
G. H., 400
G. J., 397
H. G., 549
H. L., 404
H. M., 658
I. M , 376
J., 383
J. A., 360
J. B., 693
J. D , 386
J. G., 454
J. G. M., 389, 397
J. K., 534
J. M., 169
K. M., 63
L. F., 459
M. C., 280
M. E. I., 196
P. W., 644
R., 393
R., China, 803
W. N., 611
Robichaud, P.-A., 516
Robin, R. C., 588
Robins, J. D., 550
Robinson, A., 82
A. D., 503
A. H., 614
A. J., 588
A. L., 116
D. A. F., 552
D. T., 115
Robinson, E. A. G., 46, 61
E. M., 684
E. S. G., 251
E. V., 606
E. W., 446
Rev. F. E., 41
F. H., 696
F. W., 606, 608
G. W., 319
G. de B., 552
H. R., 64, 175
Rev. H. W., 321, 326
J. F., 99
J. F., M.D., 772, 773
Mrs. J. V., 46
K., 37
L. G., 180
P. L , 85
Sir R., 248, 262
R. A., 641
R. H. O. B., 202, 213
S., 535
T. A., 558
T. H., 156, 307, 308, 324
W. L., 556, 557
Robison, G. G. S., 644
R , 202
Robitaile, A., 476, 479, 481
Roborough, Lord, 338
Robra, H., 688
Robson, D. O., 572
G. M , 671
H. C., 60
J., 382
J. M., 372
W., 153
W. A., 193, 223
W. F., 96
Roche, L. P., 424
M. A., 430
Rochester, G. D., 234
Rode, K. P., 731
Roderick, A. J., 312
H. B., 52
Rodger, A. B., 257
Rodier, L., 488
Rodin, S., 507
Rodman, F. B. S., 546
Rodolphe, Mother M., 745
Rodrigo, J. L. C., 820
Rodrigues, A. A., 153
G., 834
W., 476
Rodriques, L. F , 735
Rodwell, H. R., 641
Roe, F. C., 358
Roebuck, P., 166
T., 829
Roeh, S., 516
Roffey, M. H., 803
Roger, J. P., 480
P., 479
R., 398
Rogers, A. M. A. H., 287
Rev. C. F., 82
D. G., 671
E., 319
J., 317
Rev. J. F., 269
Justice H., 613

Rogers, J S., 598
K. H , 554
L , 332
L. J., 548
Hon. N McL , 511, 532
P. H T , 223
R. S , 589
Rogerson, H , 111
Rohatgi, B N., 708
Rolfe, S W. H., 184
Rolinson, J G , 340
Rollason, E. C , 22
Rolleston, Sir H , 472
Rollo, J. C , 771, 773
R. L., 358
W., 658, 665
Rolph, F. W , 557
Romains, J., 380
Romanis, W H. C , 213
Romans, P C., 735
Romeyn, J. C , 549
Rooff, M. M , 192
Rooke, E W., 271
Room, T. G , 615
Rootham, C. B., 76
Roper, E. S , 226, 228
Roper-Hall, H T., 25
Roques, F. W., 208
Roscoe, M. V., 446
R., 87
Rose, Baron, 19
B , 534
H. J., 398
J. H., 54
R. E., 649
W., 152, 180
W. J , 162
Rose-Innes, R. H , 254
Rosedale, J L , 829
Rosenberg, R. L., 673
Rosenblatt, W , 662
Rosenhead, L., 113
Rosenstein-Rodan, P. N , 144
Rosentengel, B. L., 607
Rosenthal, E. I. J., 239
Roskell, J S., 233
Ross, A , 633
A. D , 151
A D., D.Sc., 627
A. D , Ph D., 487
A. O. F., 116
A. S C , 97
C. M., 373
C. N., 606
D. E., 491
Sir E., Denison, 187
E. F., 469
H. A , 332
J. A., 669
J. B., 489
J. C , 117
J. C , S A., 683
J. D. M'B , 398
J. M., 210
J. P., 213
J. W., 558
K., 634
Rev. K. N., 37
M., 536
M. A., 559
Ross, M. A. S., 370
M M , 450
R., 446
R. L., 683
R. N , 102
S. G., 490
W. B , 486
Sir W. D , 252, 264
Rossiter, A , 607
A. P., 81, 83
Rosteutscher, J. H. W., 659
Roth, C , 123, 255
L , 169
L., D Phil., 815
Rothenstein, J , 364
Rotheram, W., 124
Rothney, W O., 457
Rothschild, Lord, 62
Rothstein, E , 96
Rothwell, H , 369
Roughton, F. J. W., 49, 61
Rouillard, C. D , 550
Rouleau, A., 516, 517
Rous, C C., 558, 559, 563
M. C , 662
Rouse, W. H. D., 52
Rousseau, I. J , 678
J. B. A., 513
L , 480
Z , 476, 477
Rousselle, J. M , 517
Rout, O E. L., 635
Routh, D. A., 257, 313
H. V , 180
Routledge, F. J., 113, 120
Roux, P , 662
Row, E. B., 83
R. S , 721
Rowan, W , 451
Rowe, C H , 412, 414
F. M , 103
J. W. F , 46, 58
Rowland, E N , 359
S. J , 290
S W , 179
Rowlands, E. A , 595
Rev. E C., 350
E N., 235
R. A., 207
W. T., 319
Rowles, E , 542
W., 493
Rowlett, R. J , 412, 416
Rowley, A., 226
Rev. H. H., 307, 318
Rowling, S. T., 99
Roworth, E , 659, 665
Rowse, A. L , 257
Rowson, J. M., 236
Roxburgh, A. C., 203
Roxby, P. M., 112
Roy, A R , 393
B., 478
B B., 744
B B., Patna, 795
B. C., 741
Mgr. C., 477, 478, 481
C B., 794
C. G , 758
F., 479, 480
Roy, F T , 758
G. T., 88
H., 477
J. A., 533
J.-N , 516
L , 478
M., 478, 479
N., 759
N. R., 778
P. N., 730, 731
R. C., 794
S , 480
S., Ph.D , 741
S N., M Sc , 794
S N , Ph D., 750
T. E., 489
Royal, Rev. E , 527, 528
Royce, J. I , 532
Royle, S., 523
Roys, Mrs , 461
Rozelaar, L. A , 174
Rubens, A S , 736
Rubin, E L , 117, 137, 193
Ruddall, K. M., 104
Ruddick, W , 340
Ruddock, A , 678
Rudge, E A , 225
Rudler, G , 249, 257
Rudmose-Brown, T. B , 414, 415
Rudra, J J., 767
P. B., 744
S. K., 717
Ruhemann, H., 161
Ruhnke, G. N., 561
Rule, H. G., 367
Rumford, F., 393
Runciman, D , 523
Hon. J C S., 76
Runganadhan, S. E., 707, 763
Ruppin, A , 816
Ruqayya, Mrs., 785
Ruse, H. S., 346
Rush, Rev. E. L., 544
Rushton, A , 168
W., 203
W. A. H., 49, 62
Russ, S., 211
Russell, A. S., 248, 259
B., 344
C. K , 489
D. H., 542
Sir E. J., 29, 225, 228, 305
E. K., 559
E. S., 144
H. G. B., 205
J., 388
Sir J., 762
J. A., 503
J. W., 573
K. F., 595
K. N , 389
L., 177
L. G., 346
L. J., 22, 25
L. S., 551
P. E. L. R., 265
R., 394
R., Dublin, 420
Ronald, 40

Russell, R., Ph.D., 394
W., 697
W. R., 374
W. T., 204
Russell-Wells, B., 140
Rustogi, R. S, 758
Rutenberg, D, 168
Rutherford, Hon. A. C., 449
Baron, 76
D. E., 399
H. F., 221
J., 641
Lord, 793
R. J., 90
R. L, 450
Rutherston, A. D, 248
Rutland, W. R., 112
Rutledge, J. E., 467
L. T., 533
Rutter, E., 542
Ryan, Rev. A H., 407
E. R., 432
Rev. J., 424
J. J., 429
M., 431
M. J., 425
Rye, R. A., 125
Ryerson, E. S., 558, 563
Ryffel, J. H., 202, 204
Rylands, C. A., 188
G. H. W. 46, 57
Ryle, G., 259, 315
J. A., 52, 56
Rymer, T. B., 289
Ryrie, B. J., 662

Saayman, R. B., 669
Sabhesan, M. S, 765
Sacks, E., 660
I. G., 662
Sackville, J. P., 451
Sadarangani, V. H., 767
Saddler, W., 639
Sadiq, J. W., 736
Sadleir, M., 76
Sadler, A. L, 615
Sadr-ud-din, M., 787
Saer, H. A., 312
Sagar, F. H., 642
W. L., 555
Sage, Archdeacon, 576
W. N., 461
Saha, M. N., 718, 741
Sahai, H., 757
R, 717
Sahasranamaiyer, P. G., 797, 798
Sahgal, S. P., 784
Sahni, B., 758, 762
B. L., 730
Saiduddin, M., 782
Saiha, K. P., 795
Saint, C. F. M., 662
J. H., 94
St. Amour, L. P., 529
St. David's, Bishop of, 350
St. Denis, Rev. H., 528, 529
St. Gabriel, Sr., 520
St. Hilaire, A., 478
St. Ivan, Sister M., 551
Saint-Jacques, E., 516
St. John, H B., 560
Sister M., 549
St. Joseph, J. K. S., 47
St. Laurent, L., 479
St. Margaret, Sister M., 550
St. Peter, Sister M., 551
Saint-Pierre, A., 518
St. Pierre, J., 476
M., 476
St. Stanislaus, Sister M., 549
Sainte Théophanie, Sœur, 519
St. Veronica, Sister, 539
Sajjad, S., 783
Saiyid, A, 794
Saiyidain, K. G., 713
Saksena, B. R, 718
K. C. Roy, 782
R. C, 731
R K., 717
S. K., 755
S. P, 758
Salahuddin, M, 783
Salam, A., 714
A., Osmania, 782
Salaman, R. N, 73
Salamatunnisa, Miss, 785
Saldanha, M. A., 777
Salisbury, E. J., 140, 146
Salmon, C. S, 150
E. T., 500
Y. M A., 289
Salmond, R. W. A., 212
F., 498
Salsbury, C. R., 532
Salt, G., 50, 57
L E., 264
W. E., 35
Salter, F. R., 47, 58
Rev. H. E., 262
Sir J. A., 18, 252, 257
K. W., 804
Saltmarsh, J, 47, 57
M. O., 192
Samad, A., 754
Samantarai, K., 795
Sambamurti, P, 763
Sambasivarao, K., 721
Sambursky, S., 815
Samiayyar, K., 727
Sampatkumaran, 771
Sampson, H. F., 678
H. H., 24
K., 313
M., 119
M., Mus.B., 369
Sams, Sir H. A., 58
Samson, M., 480
Samuel, Lord, 733
L. W., 626
S., 765
Sanche, H., 516
Sandall, F. A., 648
Sandbach, F. E, 21
F. H., 45, 62
Sandemann, M., 384
Sanders, H. G, 50
H. W, 588
S, 457
T. R. B., 54
Sanderson, A. R., 400
Sandes, T. L., 662
Sandford, K. S, 250, 267
Sandifer, D. A. N, 21
Sandiford, P., 560
Sandilands, J., 375
Sandin, R. B, 449
Sandon, H., 660
Sandosham, A. A., 829
Sands, D. R., 561
Sane, S. M., 758
Sang, J. H., 359
Sangster, C. B., 589
Sanichar, M. G., 784
Sanjana, B., 794
Sanjivarao, B, 771
Sankey, Viscount, 139, 247
Sankpal, G. M., 736
Sansome, F. W., 230
Sanyal, A. N., 731
D. K, 743
N K., 795
Sapeika, N., 661
Sapiro, M. L., 669
Sapru, Sir T. B, 731
Saram, P., 730
Sarbadhikari, P C., 820
Sargent, B. W., 534
J. D, 648
Mrs., 461
W. L. C., 194
Sarkar, A. N., 794
J. K, 795
K. M., 756
M., 743, 744
M. N., 743
R., 755
S, 743
S. C., 794
Sarma, B. N., 730
D. S., 764
K. S, 721
R V., 764
Sarmiento, E., 297
Saroor, A. A., 715
Sartain, W. J, 63
Sarup, B, 754
L., 788, 789
Sarwar, G., 714
Sarwari, M A. Q., 783
Sashi, P. P, 729
Sassoon, S, 36
Sastri, B N, 818
G. D., 730
M. S., 722
M. V., 741
P. P. S, 764
S. K. R., 763
T. R. R., 764
V. Ch. S., 722
V. S. S., 726
Sastry, K. R. R, 718
S., 730
Sathe, P. K., 734
Satterly, J., 551, 553
Sattigisi, B. E, 738
Satyanaroyan, R, 783
Satyanathaayyar, R., 726
Saucier, J., 517
Sauerbruch, F., 389

Sauliere, Rev. A., 764
Saunders, B. C., 44, 58
D. B., 504
F. O., 83
H. G., 60
J. A., 90
J. C., 430
J. T., 42, 53, 70
L. G., 541
L. J., 369
Mrs., 192
O. A., 167, 168
R. L., 380, 465
R. M., 551
Saunderson, H. H., 504
Saurat, D., 151
Sauvé, Rev. G., 528, 529, 530
I., 515
Savage, A., 505
C. G., 613
Savard, G., 477
Savary, R., 478
Savatard, L., 235
Savin, L. H., 209
Savoor, S. R. U., 766
Savory, D. L., 406
Sawer, G., 599
Sawkins, D. T., 615
Sawyer, A. E., 648
F., 399
Rev. H. A. P., 259
W. W., 233
Saxby, C. O., 22
Saxena, B. P., 718
Say, M. G., 375
Sayani, H. I, 734
Sayce, L. A., 86
R. U., 242
Saydon, Rev. P. P., 801
Sayeed, M. A. A., 784
Sayeedulla, S. M., 186
Sayers, R. S., 260, 265
W. C. Berwick, 142
Sayied, A. A., 745
Sayles, G. O., 384
Scarborough, E. M., 211
H., 373
J. F. D., 595
Scarfe, F., 384
N. V., 158
Scarff, G. R., 34
R. W., 210
Scargill, H. B., 101, 102
Scarth, G. W., 484
Schaffer, P., 394
Schaeffer, C. F. A., 76
Schairer, R., 158
Schapera, I., 657
Scharff, J. W., 830
Scharp, L. R., 599
Scherling, C. C., 808
Scheuber, J. R., 684
Schiassi, O., 598
Schild, H. O., 144
Schill, O. B., 244
Schilz, W. E., 680
Schindler, C., 606, 608
Schippel, W. H., 488
Schlapp, R., 369, 370
W., 234, 242
Schlink, H. H., 617
Schlumberger, B. J., 141
Schmerberg, R., 595
Schmidt, C. F., 680
C. H., 670
R. J., 169
Schmiegelow, E., 137
Schmitt, C. G., 542
Schnabel, A., 245
Schneider, F. E. E., 299
H., 40, 137, 193
K., 233
T. T., 697
W. H., 623
Schoberth, F. W., 323
Schockaert, Rev. A., 744
Schocken, S., 814
Schoeman, P. G., 687
Schofield, A. N., 296
F. W., 562
Rev. J. N., 98
S. J., 461
Scholberg, H. A., 333
Scholefield, F., 239
Scholem, G., 815
Scholes, G. E., 115
Scholfield, A. F., 42, 57
Scholtz, B., 392
D. L., 688
H. v. d. M., 669
J. du. P., 660
Schonell, F. J., 225
Schönland, B. F. J, 694
Schorn, E. J., 395
Schorr, M., 817
Schram, O. K., 368
Schrire, T., 662
Schucking, L. L., 76, 148, 380
Schulman, J. H., 44
Schulz, A. J., 588
Schulze, H. G., 675
Schumann, C. G. W., 687
Schumer, L. A., 596
Schutze, H. L., 202
Schwabe, M., 815
R., 140
Schwartz, G. L., 179
H. W., 468
Schwarzenberger, G., 223
Schweizer, W. R., 340
Scobie, J., 386
Scoble, W. A., 225
Scorgie, G. C., 394
Scotland, W. R., 216
Scott, A., 476
Rev. A. A., 710
A. A. B., 401
A. E., 591
A. M., 387
A. W., 394
C. E., 644
D. F. S., 87
E. M., 81, 83
F. R., 488, 491
F. R. F., 58
Sir G. G., 110
J. F., 398, 399
J. L., 87
J. W., 308, 324
J. W., M.D., 452
Scott, L., 595
L. C., 551
L. D. W., 387
L. I., 95
M. E., 596
M. E., Rangoon, 810
M. J., 621
N. C., 143
P. L., 562
R. L., 661
R. S., 209
S. A., 414
S. R., 205
W. A., 557
W. H., 452
W. M., 504
W. R., 385
Scott-Dickson, M., 401
Scott Fletcher, M., 612
Scoular, S. G., 633
Scrimgeour, A. C. S., 658
Scriver, W. de M., 489, 490
Scudder, H. T., 768
Scullard, H. H., 152
Scutt, C. A., 596, 601
Seager, P. N. L., 416
Seal, B. N., 735
Sealey, R., 220
Searby, C. H. C., 600
Searle, E. J., 641
J., 694
V. H. L., 336
Sears, J. W., 525
Rev. L. B., 539, 540
Seary, E. R., 678
Seaton, I. W., 407
Rev. J. B., 287
M. E., 249, 271
Sebba, J., 678
Seccombe, H. G., 597
Secker, J., 90
Secretary, Colonial, 78
Seddon, E., 305
H. R., 607
M. H., 370
Sedgewick, G. G., 460
Seed, G. S., 100
Segal, B., 693
M., 814
Segedin, C. M., 642
Seigbahn, M., 53
Seita, R., 606, 608
Seiveright, D. J., 493
Selby, A., 340
J. A. R., 804
R. W., 265
Selby Tait, F., 24
Selle, W. A., 613
Sells, A. L., 81
Seltman, C. T., 45, 59
Selvam, R. N., 764
Selwyn, Very Rev. E. G., 53
Rev. G. T., 767
Selye, H., 486
Selzer, G., 662
Semeonoff, B., 370
Semple, J. G., 152
P., 423
W. A., 230
Sen, A., 744

Sen, A., M.B., 742
A., Nagpur, 779
A., Patna, 795
A. K., 751
A. T., 810
B. B., 750
B. M., 743
B. R., 779
D., 743
D. N., 794
H. K., 749
I., 755
J., 751
J. M., 745
M., 741
N., 740
N. K., 754, 755, 756
N. K., M.B., 829
N. N., 742
R. C., 795
S., 743
S., Delhi, 755
S., D.Litt., 721
S. N., 740
T., 743
Sen Gupta, M. M., 794
N. N., 758
Senanayake, I. A., 823
Senator, D. W., 814
Sénécal, Rev. R., 527
Sengupta, B. B., 735
B. C., 744
B. C., M.L., 744
J., 743
M., 742
S., 743
S. R., 742
Senter, G., 176
Serjeantson, M. S., 196
Sergeaunt, J. M., 378
Sorton, P., 688
Servais, Y., 428
Seshaayyangar, H., 764
Seshadri, P., 710
T. R., 722
Seshagirirao, A., 721
Seshaiya, R. V., 728
Seth, B. R., 755
G., 323
H. C., 777
J. B., 789, 790
L. N., 810
Sethi, L. R., 788
M. C., 787
R. R., 788
Sethupillai, R. P., 727, 763
Seton-Watson, R. W., 162
Seward, Sir A., 25
Sewell, W. A., 388
W. A., N.Z., 641
Sexena, H. C., 788
Sexton, C. W. N., 597
E., 19
Seyer, W. F., 459
Seymour, G. E. M., 673
H. J., 424
P. A., 261
P. F., 484
W., 88
Shackleton, R. M., 169
Shadani, W. H. A., 751
Shadbe, N. G., 762, 778
Shafi, M. Md., 787, 789
S. M., 713
Shafto, C. E., 91
Shah, E. A., 759
I., 714
K. M., 735
M. S., 734
N. M., 738
S. M., 714
S. M., Bombay, 734
Shaha, K. B., 750
Shahane, S. M., 779
Shahani, M. S., 755
J. T., 737
P. D., 737
P. P., 710
P. S., 737
T. K., 735
Shahidullah, M., 750
Shaikh, A. L., 737
Shanahan, E. W., 181
Shaner, R. F., 449
Shankar, G., 788
H., 755
Shanks, G., 557
G. L., 505
P. L., 407
Shannon, H. A., 31, 700
J. F., 394
M. E., 759
N. P., 312
Shapiro, I. A., 21
Shapland, C. D., 209
W., 30
Shapter, R. E., 591
Share-Jones, J., 114, 120
Sharf, R. L., 449
Sharif, M., 715
M. M., 714
Sharma, B. D., 755
B. M., 759
D. C., 788
G. R., 756
H. D., 756
J. P., 730
P. N., 759
Sri Ram, 788
S. S., 710
Sharman, B. C., 95
M. S., 596
Sharp, C. W. C., 661
L. H., 616
T., 85
Sharpe, Rev. G. V., 551, 560
J., 101
Sharrard, J. A., 543
Shastri, A. P. B., 794
G. J., 760
H. H., 783
N. A., 778
P. D., 743
P. R. S., 715
S. G., 737
Shattock, C. E., 213
Shatwell, K. O., 623
Shavaksha, K. S., 735
Shaw, A. F. B., 89
A. N., 487
Shaw, A. P., 288
B. D, 339
C. G., 600
E., 41
G. W., 141
H, 102
Hilda, 37
I. P., 152
J. C. M., 698
J. E., 552
J. J. M., 373
J. J. S., 384
M., 306, 597
R. M., 615
R. McL., 452
W., 209
W. F., 236
Shaxby, J. H., 324
Shea, Mrs., 432
S., 432
Shearer, B. J., 376
E., 371, 376
G., 394
J., 628
J. O., 629, 644
Sheares, B. H., 829
Sheasby, H., 333
Sheddon-Adam, G. W., 607
Sheehy, E. J., 425
Sheen, A. W., 331
F. V., 323
Sheffield, O. F., 87
Shefford, A. D. E., 214
Sheldon, E. W., 450
W. P. H., 204
W. S., 616
Shelley, W., 347
Shellshear, J. L., 613
Shembavnekar, K. M., 736
Shenderkar, D. D., 785
Shenoy, B. R., 820
Shenstone, N. S., 558
Shenton, T., 347
Shephard, C. Y., 834
Shepherd, G. F., 698
H. L., 34
J., 622
W. M., 32
Sheppard, E. M., 324
F. A., 546
J. S., 169
J. T., 45, 56
N. E., 552
P. A., 170
Shera, F. H., 137, 297, 305
Sheridan, E., 426
Sherrard, F. R. G. N., 255
G. O., 425
Sherriffs, W. R., 346
Sherrington, Sir C. S., 262, 380
Sherwani, H. K., 782
O. R. K. S., 713
Sherwin-White, A. N., 266
Sherwood, J., 617
Shevde, S. V., 735
Shevenell, Rev. R.-H., 527, 528, 529
Shewan, F. G. D., 360
H. A., 371
Shields, B. F., 423

Shields, H. J., 558
Shillan, D., 158
Shimeld, J. E., 344
Shimmin, A. N., 96
Shine, Rev. J., 424
Shinnie, A. J., 204
Shintre, R. P., 737
Shipley, J. W., 449
Shipp, G. P., 614
Shire, E. S., 49, 57
Shirley, J., 296, 298
Shirras, G. F., 734
Shivarao, H., 768
Shivers, M. E., 808
Shoemaker, J. S., 451
Shoosmith, A. G., 145
Shoppee, C. W., 96
Shore, L. E., 59
 L. R., 803
 T. C., 551
Short, A. R., 35
 H. E., 205
 J., 88
Shorter, A. H., 336
Shotton, F. W., 47
Shove, G. F., 46, 57
Shovelton, S. T., 150, 152, 199
Shrewsbury, J. F. D., 23
Shrivastava, P. N., 778
 S. N., 779
Shroff, M. L., 731
 P. J., 734
Shrum, G. M., 462
Shucking, L. L., 365
Shucksmith, H. S., 102
Shukla, B. V., 778, 779
 R. C., 730
 V. B., 777, 778
Shurrock, S. H., 125
Shurtleff, H. S., 533
Shustery, A. M. A., 771
Shute, G. F., 340
Shutt, D. B., 561
 R. J. H., 83
 W. J., 110
Shuttleworth, A. C., 114
 H. L., 189
 S. G., 103, 678
Si, L. Htin, 807
Sibly, Sir F., 288, xxv
Sichel, A. W. S., 661
Siday, R. E., 177
Siddalingiah, M., 771
Siddhartha, Rev. R., 821
Siddiqi, A., 717
 A. H., 714
 A. M., 782
 Md. H. M., 764
 M. A. H., 757
 M. R., 783
 R. A., 715
 W. H., 713
 Md. Z., 740
Siddiqui, A. Q., 783
Sideleau, Abbé A., 514
Siderfin, Rev. R. J., 78
Sidey, D. J., 646
Sidgwick, N. V., 248, 261
Sidhanta, N. K., 708, 758
Siegbahn, M., 76
Siegfried, A., 817
Sieniewicz, T. M., 468
Sierra Leone, Bishop of, 78
 Chief Justice of, 78
Sieverdink, Mrs, 677
Siff, A., 695
Sifton, H. B., 548
Sigurdson, L. A., 503
Sikes, E. E., 59
 J. G., 47
Silcock, T. H., 832
Sillick, W. E. G., 169
Sillitto, A. G., 395
Sills, H. H., 57, 76
Silooja, S. S., 787
Silsby, E., 225
Silver, R. C., 384
Silverthorn, M. E., 560
Sim, J. T. R., 689
 W. S., 367
Simard, A., 479, 480
 E., 478
 Rev. G., 529, 530
 L. C., 498, 513
Simey, T. S., 113, 114
Simister, E., 103
Simlai, B., 717a
Simmonds, N. H., 35
Simmons, H. W., 99
 H. T., 229
Simon, Sir E. D., 229
 F., 107, 253
 Rev. G., 307, 318
 Sir J. A., 257
 Lady, 246
 W., 186, 188, 189
Simonds, E. F., 606
Simons, H. J., 657
 L., 177
Simonsen, J. L., 317
Simpson, A., 399
 B., 328
 B. E. G., 627
 C. K., 204
 Rev. D. C., 256, 264
 Rev. F. A., 47, 61
 G. C. E., 117
 G. W., 542
 H., 192
 H. C., 567, 569
 J. C., 373
 J. C., Canada, 486
 J. C. E., 150
 J. F., 205
 L. E., 20
 Rev. M. A., 744
 P., 76
 R. K. M., 803
 W. D., 357
Sims, J. W., 168
 L. G. A., 225
Sinclair, Sir A., 382
 D. A., 589
 H. M., 262
 J. H., 394
 R. D., 451
 R. G., 535
 T., 18, 405
 T. A., 406, 409
 W. A., 370
Sinclaire, F., 638
Sinders, T. R. B., 51
Singer, C., 142
Singh, A. N., 758
 Sir B., 793
 Balwant, 787
 B. J., 790
 B. K., 794
 B. N., 731
 C., 787
 D., 731
 G., 788
 G. N., 731
 I., 789
 J., 777
 J., Ph.D., 787
 M. G., 709, 792
 N., 787
 Sir R., 762
 R. M., 778
 R. U., 760
 S., 783
 S. K., 730
 Sardar K., 735
 T. S., 768
Singha, S., 742
Singlehurst-Ward, L., 226
Singleton, A. C., 558
 F. A., 597
Sinha, B. K., 794
 C. C., 794
 G. H., 795
 H. N., 778
 J., 743
 K. M., 794
 K. N., 757
 M. Pd., 730
 P., 742
 S., 794
Sinker, A. P., 45, 56
Sinnadurai, N., 822, 823
Sinnatamby, G. S., 824
Sipahimalani, K. P., 730
Sipprell, H. F., 446
Sircar, H., 751
 K. M., 717
 Sir N., 740
Siret, A., 757
Sirkar, M. K., 788
Sirois, A., 476
 J., 479
Sisson, C. J., 36, 141
Sissons, C. B., 551
Sitaraman, K. S., 767
 M. L., 726
Sitaramasastri, Ch., 721
Sitwell, E., 149
 O., 149
 S., 149
Sivaramakrishnaiyer, V., 797
Sivaramakrishnasastri, K. A., 727
Sivasankaranarayanapillai, S., 727
Sivertz, C., 572
Skae, F. M. T., 397
Skaife, S. H., 657
Skawran, P. R., 682, 683
Skeats, E. W., 597
Skeete, C. C., 834

Skeffington, O. L. S., 414
Skelding, A. D., 19
Skellon, J. H., 225
Skemp, J. B., 56
Skene, MacG., 30
Skerman, P. J., 605
Skerritt, J. H., 300
Skewes, S., 659
Skilbeck, D., 255, 266
Skinner, E. F., 299
F., 31
H. A., 572
H. D., 633
H. W. B., 32
Skipworth, M G , 270
Skutch, O , 406
Slack, A. J., 574, 575
H. D., 386
Slade, E., 266
Slaght, M., 572
Slater, G., 169
J. K., 374
Sledge, W. A., 95
Sleeman, C. M., 59
J. H., 194
Slepchenko, B. S., 114
Slesinger, E. G., 213
Slessor, A., 387
Sloane, J. F., 33
R. H., 407
Sloss, D. J., 803
Slosson, P. W., 41
Smail, J. E , 375
Smailes, A. E., 176
Smails, R. G. H., 532, 533
Smale, H., 215
Small, A. J., 386
C. W., 446
J., 405
J., Ph.D., 386
L., 657
R. C., 61
W D. D , 374
Smalley-Baker, C. E., 22, 25
Smallfield, H. A., 561
Smallwood, W. Carey, 24
Smare, D. L., 240
Smart, A. B., 390
E. H., 177
G. A., 89
R., 404
W. A. M., 211
W. M., D.Sc., 382
Smeal, G., 98
Smee, D. K., 192
Smellie, J. M., 24, 25
K. B., 180
Smethurst, S. E., 525
Smiles, S., 156
Smiley, M. T., 140
Smillie, D. M., 390
R. S., 376
Smit, A. J., 670
B. J., 689
J. N., 687
Smith, A., 476
A. B., 374
A. D. B., 371
A. E. H., 230
A. H., 141, 263
Smith, A. I., 488
A. M., 371, 376
B. B , 399, 403
Rev. B. T. D., 45, 60
C , 141
C. A., 96
C. A. Middleton, 803
C. A. N., 591
C. B., 467
C. E , 158
C. E., Singapore, 829
C. G., 547
C. J., 194
Rev. C. R , 127, 199, 200
C. S., 523
David, 387
D. A., 804
D. E., 451
D. Mack, 292
D. Nichol, 137, 249, 263
D. O., 809
Dempster, 240
E., 827
Rev. E., 457
E., B.Litt., 288
E. A., 555
E. B., 207
E. H. F., 269
E. M., 119
E. P., 397, 400
E. S., 41
F., 96
F., M.B., 489
F., Ph.D., 20
F. D., 467
Rev. F. H., 199
F. J., 117
F. J., Kinchin, 158
F. K., 361
F. M., 63
F. W., 225
G., 115
G. E., 178
G. F., 96
Mrs. G. F , 96
G. F. R., 118
G. I , 340
G. M., 450
G. O., 549
G. P., 323
H., Ph.D., 384
H. A., 91
H. A , D.C.L., 223
H. D., 462
H. E., 361
H. E., Ph.D., 450
H. G., Canada, 553
H. G., London, 175
H. G., Scot., 359
H. R., 376
H. T., 110
I. A., 398
J., 394
J., D.Sc., 360
J. C., 248
J. E., 50, 306
J. F., 207
J. Ferguson, 386
J. G , 19, 21, 25
J. H., 226
Smith, J. H., Wales, 313
J. I., 332
J J., 687
J. L. B., 677
J. L. S., 367
J. MacG., 451
J. O., 600
K. S., 207
L., 553
L. D., 820
May, 180, 204
M., 186
M. D., 550
N., 229, 230
N. J. G., 677
N. K., 370
P. W., 225
R., 394
R. A., 289
R. A., Glas., 404
R P., 468
S., 150, 163
S., D.Sc., 32
S , F.R.S.C., 451
S , Ph.D., 50
S A., M D., 372, 377
S. B., 758
S. E., 503
S. L., 168
S. P., 394
T. B., 295
T. W., 599
V., 358
V. G., 555
W., 112
Winifred J., 400
W. J., 393
W. K., 367, 378
W. M., 296
W. O., 289
Smith-Pearse, T. L. H., 777
Smith-White, W. B , 615
Smithells, P. A., 337
Smither, W. J., 555
Smithers, G. V., 141
Smithies, F., 60
Smithson, F., 177
Smout, C. F. V., 19
Smuts, Rt. Hon. J. C., 657, 664
Ph. A., 661
Smyly, J. G., 412
Smyth, Rev. C. H. E., 54
D. H., 143
L. B., 414
Smyth-Homewood, G. R. B., 184
Smythe, H. J. D., 34
J. A., 87
Snape, A. E., 660
Snapper, I., 137
Snedon, I. W., 677
Sneedon, O., 394
Snelgrove, G., 541, 544
Snell, Sir J., 156
Snodgrass, C. P., 369
N. S., 398
Snow, C. P., 54
G. R. S., 262
Snure, P., 500

Snyder, E. S., 561
Soal, S. G., 175
Softley, J. W., 830
Sogani, C. M., 731
Sola, M., 736
Solandt, D. Y., 554
Solanke, L., 189
Soley, R., 523
Solomon, L., 140
W. E. G., 286
Somalwar, S. G., 779
Somasundaram, 727
V., 764
Somayajee, G. J., 722
Somers, Rev. H. J., 539
Somerset, H. V. F., 268
J. B., 600
Somervell, Sir D. B., 257
Somerville, H., 553
W., 626
W. C., 744
Sondhi, G. D., 788, 790
Sonet, E., 450
Soni, H. R., 730
Sonnabend, H., 695
Soper, F. G., 633
Sophie, Sister, 766
Soublières, M., 529
Sourdille, M., 498
Souter, R. W., 633, 635
W. C., 361
South, Rev. T. H., 244
Southam, A. H., 237
F. L., 102
H. D., 485
Southern, R. W., 258
Southwell, R. V., 249, 258
T., 113
Southwood, A. R., 590
Souttar, H. S., 214
Soward, F. H., 461
Sowdagar, A. S., 784
Sowerbutts, J. A., 226
Spackman, W. C., 735
Spalding, J. F., 33
K. J., 258
Spann, R. N., 231
Sparks, Rev. H. F. D., 82
J. F., 536
Sparkes, S. R., 168
Sparrow, J. H. A., 257
Spary, P. G., 346
Spate, O. H. K., 807
Spath, L. F., 177
Spaul, E. A., 98
Speakman, J. B., 103
J. C., 295
S. O., 234
Spear, T. G. P., 754
Spearing, J. K., 150
Speechly, H. M., 506
Speers, P. C., 787, 788, 790
Speight, N. C., 635
Spence, A. W., 207
J. C., 89
J. J., 555
R., 96
W. J., 503
Spence Smith, G., 697
Spenceley, J. A., 573
Spencer, A. V., 255
G., 339
G. E. L., 834
G. J., 462
J. F., 191
R., 94
R. A., 543
W. G., 214, 225
Spens, Sir W., 54
Sperrin-Johnson, J. C., 428
Spibey, H., 240
Spidle, S., 448
Spiller, R. C., 251
T. R., 795
Spilsbury, Sir B. H., 204
Spink, J. S., 151
M. S., 299
Spinks, G. T., 36
J. W. T., 541
Spiridion, C., 332
Spitta, H. R. D., 204
Spittle, J. T., 51, 58
Spiwalowsky, E., 599
Spong, A. H., 658, 677
Spooner, E. T. C., 52, 54
Spoor, A. T., 35
Sprawson, E. C., 215
Spring, F. S., 230
Sprott, W. J. H., 341
Sproule, G. St. G., 488
W. H., 561
Spurrell, W. R., 211
Squire, H. B., 233
Sraffa, P., 45
Sreenivasan, K., 818
Sreenivasaya, M., 818
Sreshta, R. R., 758
Srikantia, B. M., 771, 772
C., 771
Srinivasachariar, C. S., 726
K., 727
Srinivasalunayudu, P., 727
Srinivasan, C. T., 727
G. A., 764
N., 721
N. G., 808
R., 765, 797
Srinwasan, S., 728
Sriraman, S., 727
Sriramaulu, K., 764
Srivastav, D. P., 795
Srivastava, G. D., 717
P. L., 718
S. R., 760
Stable, J. J., 606
Stabler, F. E., 89
Stacey, J. E., 299
M., 20
Stafford, J., 231
Stahl, E. L., 156, 250
Staig, R. A., 386
Staley, H. S., 777
Stalker, J. M., 401
Stallybrass, C. O., 116
W. T. S., 253, 258
Stamford, N. C., 240
Stamm, T. T., 209
Stammers, A. F., 24
D., 694
Stamp, Baron, 179
Stamp, Sir J., 123
L. D., 180, 749
T. C., 202
Stanford, W. B., 412
Stanger, J. K., 89
Stanier, J. G., 346
Stanley, A., 86
B., 86
Carleton W., 465, 473, 567
G. F. G., 456, 522
G. H., 695
G. K., 196, 197
H. M. S., 332
J., 532
L. S., 145
Stanners, H., 198
R. W., 46
Stansfield, E., 452
Stantial, H., 567
Stanton, B. L., 599
Stanworth, T. D., 395
Stapledon, Sir R. G., 246, 313, 314, 315
Staples, M. W., 561
W. E., 553
Stapleton, G., 792
Starke, D., 141
Starkie, E. M., 250, 270
I., 415
W. F., 412, 414, 415
Start, L. E., 231
Startup, C. W., 324
Statham, I. C. F., 298, 305
Stather, Mrs., 341
Statton, J. W., 588
Stavraky, G. W., 573
Staz, J., 698
Steacie, E. W. R., 485
Stead, G., 63, 76, 211
G. C. 57
Steadman, S. F. St. J., 215
Stearn, C. H., 500
Stebbing, E. P., 371
L. S., 192
Stede, W., 188
Stedman, E., 367
Mrs., 367
R. E., 399
Steed, H. Wickham, 152
Steel, A., 88
A. B., 47, 53
G. D., 470
G. S., 398
R. S., 617
Steele, E. S., 397, 403
Rev. J., 187
S., 639
W. M., 587
Steen, S. W. P., 48, 53
Steenkamp, J. L., 689
W. F. J., 681
Steenkiste, Rev. A., 765
Steers, J. A., 46, 59
Steeves, R. T., 446, 447
Stegmann, E. T., 688
Stehle, R. L., 490
Stein, Sir A., 286
H. B., 692
P., 673

Stein, S., 141, 144
Steinhauer, H. J., 542
Steinley, Rev. E., 119
Stekelis, M., 816
Stella, G., 143
Stenning, J. F., 286
Stenton, F. M., 289
Mrs., 289
Stéphan, E. M., 141
Stephen, E. H. M., 617
G. M., 360
H., 693
Stephen-Lewis, F. V., 697
Stephens, A. C., 634
A. V., 51, 60
D. J., 327
E. L., 658
F. G., 600
H. D., 102
J., 525
Rev. J. O., 308
J. S., 21
J. S., B.A., 119
R. W. B., 170
Stephenson, A., 168, 180
E. M., 335, 336
G. E., 89
Sir H. K., 295
N. G., 642
T. A., 660
W., 282
W. Tetley, 181
Steuber, F., 40
Steven, A. B., 394
H. M., 358
Stevens, A., 384
C. B., 103
C. E., 262
P. G., 485
P. T., 658
R. W., 538
S. J. H., 669
T. S., 383
W. L., 145
Stevens-Guille, H. de C., 188
Stevenson, A. C., 142
A. F. C., 552
Sir D. M., 382
E., 368
E. M. K., 387
G. H., 267
G. H., M.B., 389
G. H., M.D., 574
H., 18
J., 45
J., B.Sc., 394
L., 562
O. J., 561
Steward, F. C., 176
Stewart, A., 451
A., Toronto, 561
A. H., 340
A. M., 626
A. W., 405
B. J., 808
C., 101
C. A., 297
C. C., 488, 491
C. P., 367
D., 229
Stewart, D. J., 744
D. M., 389
D. S., 368
D. S., India, 744
F. R., 358, 362
G., 660
G. D., 366
H., 347
H., B.Sc., 533
Rev. H. F., 46, 61
H. L., 466, 473
H. S., 501
I. J., 358
I. S., 101
J. A., 186
J. D., 363
J. D., Aust., 615, 620
J. D., Canada, 534
J. I. M., 588
J. McG., 465
J. McK., 588
J. P., 374
K., 167
Mrs., 541
M. J., 100
R., 230
R. L., 373
R. M., 498
R. R., 791
T. G., 207
W. L., 88
W. M'C., 398
W. Ross, 791
Steyn, D. G., 684
H. P., 684
Stibbe, E. P., 150
Sticht, J. H., 644
Stickland, L. H., 101
Stiles, W., 19
Stiling, F., 573
Still, C. J., 409
J. L., 622
Stillwell, E. C., 561
Stirk, S. D., 336
Stirling, J., 110
R. J., 366
Stiven, D., 400, 404
Stobie, H., 40, 215, 219
Stobo, A. J. H., 617
Stock, W. S. V., 30
Stockdale, D., 44, 57
Stockenström, E. C., 688
Stocker, W. N., 258
Stocks, Mrs., 196
Stoddard, R. H., 468
Stoker, H. G., 675
Stokes, E. H., 617
Stokoe, F. W., 46
Stomps, Th. J., 137, 156, 286
Stone, C. I., 677
D., 41
J., 642
L. W., 151
R. E., 561
Stonedale, M. B., 270
Stoneley, R., 48
Stoneman, W. E., 290
Stoner, C. R., 174
E. C., 98
Stones, H. H., 118, 120
Stoney, A. J. M'C., 606
Stonier, A. W., 144
Stoodley, L. G., 347
Stopford, J. S. B., 229, 236, xxv, xxviii, xxix
Stopford-Taylor, R., 115
Stops, W. J. T., 623
Storer, W. O., 346
Storey, C. A., 52
J. C., 618
Storrie, F. R., 383
Storrow, B., 88
J. A., 239
Storrs, Rev. C. E., 626
Story, J. D., 605
Stott, A. W., 207
H., 762
Stoughton, R. H., 291
Stout, A. K., 615
Stover, N. M., 450
Stovin, J. O., 83
Stow, V. A. S., 710
Stowell, T. E. A., 181
Stoy, P. J., 35
Strachan, A. S., 697
C., 113, 365
G. I., 331
J., 99
L. R. M., 21
W. G., 363
Strachey, J. P., 64
Strain, R. W. M., 408
Straits Settlements, Gov. of, 832
Stramberg, E., 447
Strang, J. A., 757, 758
Strangeways, D. H., 322
Strasheim, J. J., 691
Straszacker, R. L., 695
Strathdee, R. B., 357
Strathey, E. G., 569
Stratton, F. J. M., 43, 55, 73
Rev. J., 269
Mrs., 174
Straw, S. H., 232
Strawbaum, A. E., 696
Streatfield, H. D. D., 160
Stredder, F. O., 484
Street, R. O., 394
Strelen, Mrs., 681
Strickland, C., 742
E. H., 450
Strock, Rev. J. R., 723
Strong, A. G., 633
T. B., 591
Stroud, W., 107
Struth, M. le V., 260
Struthers, J. W., 373
R. R, 490
Struve, G. P., 162
Stuart, A., 328
E. M., 567
Mrs. H. S. M., 152
R. D., 386
W. J., 373
W. S., 103
Stubbs, J., 95
Studd, E. J., 25
Stump, C. W., 613

Sturrock, F. G., 390
G. M., 401
J., 374
Sturt, M., 20
Styles, D. W. G., 150
H. J., 533
P., 21
Subba Rao, N. S., 771
Subbarao, A., 772
B., 776
L., 721
M. V. N., 721
N S., 727
N. V., 722
P., 767
V., 722
Subhalakshmi, Sr. R. S., 768
Sublet, F. G. A., 597
Subotic, D. P., 162
Subrahmanyaaiyar, K. C., 723
P. A., 726
Subrahmanyaayyar, M. S., 727
Subrahmanyam, K., 764
Subrahmanyan, A. C., 726
H., 765
S., 727
V., 818
Subrahmanyasastri, V., 727
Subrahmanyayya, P. S., 764
T. S., 764
Subramaniam, L. R. S., 731
Subramanian, K. S., 808
Sucksmith, W., 32
Sueyras, M., 406
Sugarman, B., 616
Sugars, R. M., 485, 487
Sugden, J. H., 331
J. N., 167
R., 596
S., 140
Suggit, S. C., 205
Suhrawardy, Sir H., 740
S., 740
Sukenik, E. L., 814
Sulaiman, Sir S. M., 713
Sullivan, Rev. B., 553, 560
C. T., 486
W. G., 541
Sully, Rev. T. D., 710
Sultan, Md , 759
Sultana, A., 800
Mrs. A., 786
Sum, N. G., 803
Summerby, R., 492
Summers, A. E., 102
G., 827
G. M., 186
H. St. J., 597
Summons, W. E., 597
Sumner, B. H., 251, 258
D. B., 694
W. L., 340
Sundarachar, C. R., 772
Sundaranathan, M., 768
Sundararamasastri, N., 763
Sundarrao, P. J., 767
Sunderam, Mrs., 785
Sunderland, A., 201
Sunderland, S., 595
Suntharalingam, C., 820
Surerus, J. A., 551
Surey, L. S., 777, 778
Suri, S. R., 790
Surveyor, Hon. Justice E. F , 488
Suryanarayana, K., 764
M., 764
T., 723
Suryanarayanasastri, S. S., 763
Suryapracasarao, P., 722
Susman, E. L., 617
M. P., 618
W., 236
Sussex, R. T., 601
Sutherland, A., 448
C. H., 400
C. H. V., 251
D., 384
D. G., 367
D. M., 362
D. McK., 237
D. P., 237
Mrs. D. R., 170
D. S., 235
G. A., 234, 244
G. B. B. McI., 58
G. F., 616
G. J , 595
I. L. G., 639
J. D., 380
J. R., 176
J. W. M., 88
L. S., 270
M. M. J., 393
P. L., 100, 101
W., 744
Sutton, C. W. H., 269
G. E. F., 34
H., 618
L. E., 262
N. G., 607
W. G , 695
W. G., M.Sc., 648
Suxena, G. P., 777
Suzman, A., 694
M. M., 695
Svedberg, T., 137, 148
Swain, H. J., 616
I., 429
Swainson, W., 358, 365
Swales, W. E., 493
Swaminathan, K., 764
Swan, D. C., 590
W. M., 408
Swanson, C. O., 461
G. C., 389
T. B., 590
W. W., 541
Swarbrick, T., 36
Swart, E. V., 700
J. C., 689
P. R., 695
Swarup, B., 755
D., 731
Sweeney, G. M. J., 673
Sweeting, G. D., 326
Swiegers, J. U., 693
Swift, B. H., 589
H. W., 297, 302
Swiles, B., 63
Swinarton, L , 563
Swinnerton, H. H., 340
Swinney, J., 90
Swinton, Sir E. D., 251, 257
Switzer, W. G., 558
Sword, J. H., 346
Sydney, Governor of, 613
Syed, M. H., 718
Sykes, J., 306, 335
J. G., 102
L. C., 296
Rev. N., 196
R., 244
Sylvester, D., 82
Syme, A. C., 393
R., 250, 266
W. S., 387
Symington, K., 370
N. J., 617
Symon, F. J., 395
Symonds, C. P., 207
Rev. H. E., 96
Symons, A. S. M., 226
F. S., 488
H. W., 101, 102
Synge, J. L., 552
V. M., 415
Szenczi, N. J., 162

Tabor, R. J., 166
Taggart, P., 111
Tahir, N. A., 782
Taig, T., 327
Taimini, I. K., 717
Tait, E. W., 20, 21
J., 233
J., M.D., 487
J. S., 394
M. D. C., 549
R. C., 522
W. D., 487
Tak, W. H., 804
Talbot, E. M., 249
L., 477
P. R., 451
R., 478
R. J. de C., 599
W. J., 659, 665
Talbott, A. C., 86
Taljaard, M. S., 688
Tallerman, K. H., 204
Tamblyn, W. F., 573
Tamhane, V. A., 737
Tamhankar, G. R., 777
Tancock, L. W., 141
Tandon, R. N., 717
Tandy, M. O., 253, 255
Tannan, M. L., 707
Tannenbaum, B., 659
Tanner, T., 346
E. L., 139
Tanquerey, F. J., 176
Tansley, K., 143
Taplin, W., 347
Tapscott, H. P., 500
Taqi, S. G., 777

Taqizadeh, S. H., 188
Taraporevala, Y. J., 794
Taraporewala, J. A., 737
S. P., 734
Tardif, A., 476, 478
Tarrant, A. J. M., 222
D., 191
Taschereau, R., 479
Taseer, M. D., 790
Tasker, D. G. C., 35
Rev. R. V. G., 199
Tate, H., 486
J., 398
P., 44
Sir R. W., 412, 413, 414
Tattersall, G., 626
N., 100
W. M., 324
W. R., 402
Tattersfield, F., 224
Taube, E., 573
Taufiq, M. A., 750
Taussky, O., 196
Taute, B., 687
Tavener, L. E., 345
Taverner, L., 328
Tawney, R. H., 137, 180, 193
Taylor, A. B., 623
A. C., 597
A. Clifton, 597
Sir A. D., 148
A. E., 370
A. J. P., 262
A. L., 34
A. M., 399
A. R., 617
B. W., 487
C. D., 449
C. W., 468
D., 542
D., M.A., 598
D. B., 415
D. G., 324
E. G., 395
E. G., Ph.D., 532
E. G. R., 176
E. O., 168
F. A., 259
G., 176
G., Canada, 551, 560
G. B., 449
G. F., 791
G. G., 567
G. I., 61
G. L., 145
H., 288
H. C., 151
H. G., 209
H. J., 736
H. McC., 48
H. S., 498
J., 214
J. F., 210
J. G., 659
J. K., 591
Rev. K., 575
K. W., 501
L. B., 359
L. J., 622
M. L., 388
Taylor, Margaret, 142
Mrs., 210
N. B., 554
R., 555
R. A., 397
R. J., 617
S. P., 29
T., 83
T. M., 360, 363
T. M. C., 548
T. W. J., 248, 258
W. D., 358
Rev. W. E., 561
W. H., 240
W. R., 36
W. R., Ph.D., 553
Tcherikover, A., 615
Te, A. Ba, 810
Teago, F. J., 115
Teakle, L. J. H., 626
Teakles, W. B. H., 503
Teale, A. E., 234
F. H., 210
Tees, F. J., 491
Teichart, C., 627
Telang, D. M., 735
V. A., 772
Telfer, J., 85
S. V., 388
Rev. W., 45, 54
Telford, E. D., 242
Telling, W. H. Maxwell, 107
Temperley, H. W. V., 47, 58
Tempest, N. R., 296
Temple, G., 152, 154
Templeman, G., 21
W., 827
Templeton, J., 83
Tennant, Rev. F. R., 61
P. F. D., 50, 59
Tennent, T., 208
Ternouth, E. J., 289
Terrey, H., 140
Terrini, J., 800
Terroux, F. R., 487
Terry, E., 225
Mrs., 192
Terwillegar, N. Ll., 453
Tessier, A., 477
Tessier-Lavigne, Y., 518
Tetley, C. H., 95
H., 33
J. H., 648, 649
Teulon, O. H., 813
Tew, W. P., 574
Tewari, K. D., 730
Tha, Po, 807
Thacker, Mrs. D., 64
T. W., 81, 321
Thackeray, A. D., 43
E. R., 544
Thackray, H. E., 97
Thadani, N. V., 755
Thakur, A. D., 759
R. S., 781
Thambayya, S., 767
Thapar, G. S., 759
Thatcher, L. H. F., 372
P., 659
T., 608
Thatcher, W. S., 46, 63
Thatte, V. N., 779
Theakston, H. R., 466
Thearle, H., 110
Theobald, L. S., 167
Theodor, O., 815
Theodosia, Sister M., 766
Theodosius, H. G., 80
Theron, C. J., 689
E., 688
J. J., 683
J. J., M.Sc., 675
Theuathason, A. W. S., 829
Thewma-Relf, Rev. J., 801
Thiagarajah, S., 822
Thibaudeau, A., 517
Thiman, E. H., 226
Thin, R. T., 374
Third, J. R., 535
Thirkettle, W. E., 392
Thirkill, H., 54
Thirlby, G. F., 658
Thistlethwaite, R., 265
Thivierge, Rev. E., 528, 529
Thoday, D., 317
Thom, A., 386
H. B., 688
J. B., 669
Rev. W. C., 618
Thomas, A., 633
A. B., 312
A. D., 684
A. H., 606
Sir A. P. W., 632, 643
B., 88
Brinley, 180
B. J. A., 687
C. P., 214
D. H., 340
D. W., 52, 84
Ven. D. W., 350
E., 290
E. T., 765
F. Brian, 333
F. G., 337
F. W., 749
G. H., 804
H. F. S., 446
H. H., 44, 55
H. M., 573
I., 319
I. Glyn, 692
I. M., 616
J. Alun, 318
J. F. H., 41
J. H., 323
J. S., 666, 677
J. W., 788, 789
J. W. T., 332
L. N. B., 597
L. S., 322, 325
M., 85
Miss M., 317
Mrs. M., 717
M. M., 765
M. T., 314
P. J., 191, 763
P. S., 328
Rev. R., 798
H.E. Sir S., 829

Thomas, S., 323
S. B., 313
W. D., 327
Sir W. J., 331
W. M., 672
W. Norman, 323
Thompson, A. B., 641
A. H., 97, 104, 305
A. M., 485
C. G., 700
C. H., 50
C. H., Ox., 265
C. N., 659
D., 89
Sir D'A. W., 241, 400
D. V., 76, 161
E. H., 238
E. J., 264
E. L., 613
E. M., 659
F. C., D.Met., 229, 233, 238
G. E., 634
G. G., 114
H. A., 76, 148, 286, 548, 567
H., Leeds, 99
H. S., 627
H. W., 248, 266
H. W., M.Sc., 99
I. M., 503
J., 290
Rev. J. C., 618
J. H., 153
J. H., Canada, 541
J. H. C., 260, 262, 266, 267
Rev. J. M., 251
J. McL., 110, 124
J. R., 296
M. C., 198
N., 32
P. F., 598
R. C., 254, 263
R. H. S., 267
R. J. C., 220
R. R., 484
R. W., 561
S., 89, 94
S., Canada, 574
W., 777
W. A., 117
W. A., M.B.A., 572
W. H., 446
W. P., 541
Thomson, A. M W., 387
A. P. D., 385
A. S. T., 394
C. S., 408
D., 61
D. L., 484
E. J. M., 368
G., 20, 76
G., Ph.D., 383
Major G., 409
G. H., 368
G. P., 170
Rev. G. T., 368
H. J., 317
J., 382, 385, 391
Thomson, J., M.B., 400
J. A. K., 150
J. B., 634
J. C., 373
J. E., 552
J. G., 89
Sir J. J., 49, 61
J. L., 151
J. M., 394
J. O., 20
J. R., 294
J. Ramsay, 693
J. S., 541
M. A., 142
M. S., 203
R. B., 548
R. H., 385
Scott, 371
T., 317
W. W. D., 408
Thorburn, A., 20, 21
J. M., 324
W. S., 102
Thorlakson, P. H. T., 507
Thorne, H. H., 615
Thorneycroft, F. J., 176
G., 271
Thornton, C. T., 368
Sir E. N., 697
H. G., 227
H. R., 451
J. W. de W. G., 34
R. L., 498
Thorpe, E., 363
J. F., 173
W. H., 46, 56
W. V., 23
Thorvaldson, T., 541
Thosar, B. V., 779
V. B., 734
Thouless, R. H., 46
Threlfall, H., 340
Thrift, H., 412
W. E., 412, xxv, xxviii
Thrupp, S., 461
Thurston, G. B., 454
Thyagarajan, K. B., 728
Ti-Shan, H., 803
Tibble, J. W., 335
Tidy, H. L., 220
Tiegs, O. W., 599
Tier, W., 505
Tierney, M., 421, 423
Tilak, V. S., 735
Tilley, A. A., 56
C. E., 48, 55
L. C., 22
Tillotson, G., 141
Mrs., 191
Tillyard, E. M. W., 46, 56
H. J. W., 308, 322, 329
Tilsley, H., 240
Timberlake, E. M., 192
Timlin, M., 542, 544
Timms, G., 399
Timoney, J. R., 424
Tin, Maung, 809
Ba, 810
Pe Maung, 807
Tindal, E., 627
Tindal, Rev. W. S., 375
Tindall, Rev. F. C., 347, 348
Tinkler, C. K., 198
Tinley, N. L., 184
Tinne, C. E., 269
Tinsley, J., 390
J., B.Sc., 184
Tipping, W., 461
Tirmizy, M. H., 737
Tirol, M., 533
Tirumurti, T. S., 768
Tiruvenkataswami, 764
Tisdall, F. F., 558
Titchmarsh, E. C., 250, 264
Titlestad, R. M., 675
Titley, A. F., 151
Tivey, J. H., 394
Tiwari, L. R., 718
S. G., 718
Tiwary, N. K., 731
Tizard, Sir H. T., 166
Tobin, Rev. C., 540
Tocher, J. F., 360
Tocker, A. H., 638
Tod, M. N., 248, 264
Todd, A., 294
A. C., 110
A. R., 230
A. T., 34
C. E., 680
E. W., 465
F. A., 614
G. W., 87
H., 32
J., 152
J. A., 48
J. B., 368
J. E., 406
J. P., 395
O. J., 459
T. R. R., 374
Toeplitz, E., 817
Tolani, M. N., 710
Tolansky, S., 234
Tolkien, J. R. R., 247, 265, 402
Tolton, W. D., 561
Tom, M. I., 557
Tomar, U. S., 778
Tombs, D. M., 168
Tomkeieff, Mrs. O. G., 86
S. J., 86
Tomlinson, A. H., 561
F. R., 683
H., 43
J., 103
L., 249
M. L., 63
Mme., 87
Tommerup, H. G., 606, 608
Tompkins, F. C., 672
J. M. S., 194
Tompsett, S. L., 395
Toms, B. A., 406
Tooke, F. T., 490
Toole, F. J., 525
Tooley, M. J., 192
Toomer, J. E., 556
Toothi, N. A., 734
Topa, I. N., 782

Topalian, S., 186, 189
Topley, W. W. C., 202
Topping, C. W., 459
Topps, J. E. C., 345
Torczyner, H., 815
Torrens, D. S., 415
J. A., 207
Toshniwal, G. R., 718
Tostevin, A. L., 589
F. P., 777, 778
Totadri, C., 768
Tout, H., 31
Tovey, Sir D. F., 123, 369, 377
Towers, J. R. H., 100
Town, B. W., 203
Townend, D. T. A., 103
H., 358
Townley, K. A., 169
Townrow, V., 299
Towns, F. W., 233
Townsend, Rev. H., 239
J. S. E., 252, 263
W. G., 627
Toynbee, A. J., 180, 187
J., 45, 64
M. R., 271
Tozer, A. H. D., 111, 114
F. M., 114
Tracey, H. L., 533
Tracy, C. R., 450
G. F., 555
Rev. M., 421
Traquair, H. M., 374
R., 484
Tratman, E. K., 40, 830
Treadgold, W. M, 556
Trease, G. E., 341
Treatt, V. H., 616
Tredennick, G. H. P. P., 174
Tredgold, A. F., 181, 208
Trefauier, V., 478
Trefry, M. E., 469
Tregarthen, G. G. T., 90, 93
Treharne, R. F., 312
T. L. G., 168
Tremblay, A., 477
J., 517
J.-J., 529
J. L., 476
Rev. R., 529
Trempe, F., 479, 480
Trench, W. Fitz J., 414
Trend, J. B., 50, 54
Trendall, A. D., 62
Trenery, G. R., 112
Trent, Lord, 339
Tress, H., 198
R. C., 335
Treston, H. J., 428
M. L., 809
Trethewey, W. H., 550
Trevan, J. W., 137
Trevelyan, G. M., 47, 62
Trevor, D., 209
J. C., 43
Trevor-Roper, H. R., 263
Trew, V. C. G., 191
Treweek, A. P., 614
Tribe, M., 153
Tribedi, D. P., 743
Triebel, L. A., 623
Trigge, Rev. H. H., 608
Trigunait, K. C., 731
Trikojus, V. M , 614, 617
Tripathi, B. L., 730
C., 718
R. P., 717
R. S., 730
Tritton, A. S., 186
Trivedi, A. K., 735
J. P., 737
Trofimov, M. V., 234
Tromp, F. J., 680
Trotman, S. R., 339
Trotter, M. A., 607
R. G., 534
Trottier, E., 517
Troup, Sir E., 150
R. S., 249, 266
Trout, A. M., 346
Trow, E. J., 557
Trowell, G. W., 798
O. A., 370
Truchy, H., 520
Trudeau, R., 520
Rev. R., 528
Trudel, Rev. R., 528, 529
Trudgian, H. M., 336
Trueblood, L. W., 808
Trueman, A. E., 384
A. W., 522
G. J., 522
Trumble, H. C., 591
H. C., M.B., 600, 601
Trumpelmann, J., 672
Trumpour, Rev. H. R., 462
Truscott, J. H. L., 561
Tsen, Rt. Rev. P. L , 498
Tuck, H. P., 623
W. B., 203
W. R., 642
Tucker, A. N., 188
B. W., 253, 264
G. M., 57, 191
H. F. G., 36
Rev. H., 522
L. A., 484
M., 697
P. A., 37
S. H., 383
S. I., 31
Tuckfield, W. J., 601
Tudhope, G. R., 401
Tudor, J. A., 314
Tullis, J., 794
Tulloch, W. J., 400
Tulpule, H. V., 738
Tun, W. Chit, 809
Tunbridge, R. E., 100
Tung, E. Ho, 804
Tunnicliffe, H. E., 49, 56
Tupling, G. H., 233
Tupper, R. H., 460
Turberville, A. S., 97
Turin, S. P., 162
Turing, A. M., 57
Turkington, J., 641
Turnbull, G. H., 296
H. M., 210
Turnbull, H. W., 399, 404
J. M., 461
M. I., 633
M. McK., 367
Turner, D. M , 99
E. E., 191
E. G., 358
Emily G., 295
E. O., 525
F. C., 298
F. J., 633
F. McD. C., 58
G., 346
G. G., 214, 389
H. A., 239
H. A., Ph.C., 341
Rev H. E. W., 261
H. M., 300
H. P., 246
H. W., 31
I. A., 292
J., 113
J. E., 113
J. S., 76, 595
J. S., M.Sc., 807
J. W. C., 51, 62
L. B., 51, 57
P. J., 484
R., 661
R. L., 186, 188
R. W., 336
W., 214
W , India, 764
W. E. S., 298
W. G., 491
Turquet, A., 197
Mrs. G. R., 192
Turton, F. J., 169
Turville, A. D., 572, 573
Turville-Petre, E. O. G., 97
Tuttle, Rev. A. S., 454
Tweddell, J. T., 535
Tweed, W. S., 169
Tweeddale, Mrs. G. C., 384
Tweedie, Hon. Mr. J., 450
Tweedsmuir, Lord, 366, 380
Twining, E. W., 237
Twort, F. W., 164
J. M., 235
Tylecote, F. E , 235
Tyler, C., 37
J. E., 296
Tylor, T. H., 258, 260, 268, 269
Tymms, R. V., 233
Tyndale, O. S., 488
Tyndall, A. M., 32
Tyrrell, G. W., 384
Tyson, M., 229, 234
Tytler, W. H., 332

Uddin, S. M., 713, 715
Uffenorde, A., 318
Umaruddin, M., 714
Underhill, F. H., 551
Underwood, Rev. A. C., 104
F., 341
Mrs., 340
Ungaro, A., 97
Ungley, C. C., 89

United Provinces, Gov., 710, 717, 720, 730, 757
Unsworth, S. V., 117
Unthank, H. W., 336
Upadhyaya, A. S., 730
B., 730
Upadrasta, V. K., 721
Upfold, S. J., 255
Ure, Mrs. A. D., 288
P. N., 288
S. G. M., 167
W., 459
Urie, A., 393
Urquhart, F. M., 391
M. L., 598
R. W. I., 557
Ursell, H. D., 98
Urwin, C. R., 168
K., 321, 323
Usher, F. L., 95

VACHON, Mgr. A., 476, 481
J.-L., 527, 528
Vadboncœur, E., 518
Vadnais, Abbé R., 514
Vaidya, B. K., 734
G. B., 777
Vaidyanathaswami, R., 763
Vaillancourt, J., 480
Vaiyapuripillai, S., 763
Vakil, C. N., 734
K. S., 737
M. S., 735
Valentin, V., 142
Valentine, C. W., 20
D. H., 44, 60
Valéry, F., 336
P., 256
Valiuddin, M., 783
Vallée, A., 479, 481
Vallerand, J. P., 514
Vallette, J., 87
Vallières, H., 478
Vallve, J., 626
van Braam, P., 687
van Cleave, A. B., 541
van Eeden, B. J. C., 687
Van Grutten, W. N. C., 71
van Heerden, C. J., 684
P., 661
van Heyningen, C., 688
van Hoogstraten, E. G., 661
van Huyssteen, D. C., 680
van Rensburg, S. W., 684
van Riet Lowe, C., 692
Van Roojen, J., 662
van Rooy, D. J., 675
J. C., 675, 676
van Rooyan, C. A., 823
van Rooyen, E. C., 367
E. E., 688
L. A., 683
van Selms, A., 681
van Themaat, H. V. L., 688
van Tonder, A. J., 680, 683
van Vlich, H., 543
Van Vliet, M., 462
van Wageningen, G., 675
van Wyck, H. B., 557
van Wyk, L. P., 683
van Wyk, S. P., 689
van Zeeland, P., 53
van Zyl, H. S., 687
van den Ende, M., 662
van den Heever, C. M., 692
van der Bijl, H. J., 680
Van der Byl, P. A., 689
van der Horst, A. W., 687, 688
C. J., 695
S. T., 658
van der Linde, W. J., 683
van der Lingen, J. S., 682
van der Merwe, C. D., 687
D. F., 657
I. W., 660
J. P., 675
J. S., 675
P. J., 675
Van der Poel, J., 659
van der Reit, B. de St. J., 687
van der Walt, A. J. H., 675
van der Westhuizen, W., 688
Vandry, F., 478, 479
Vanier, G., 518
Vant, J. R., 453
Vanterpool, T. C., 541
Vanzetti, F., 627
Varadachari, P. S., 727
Varadachariar, K., 727
Varadanam, Ch. I., 722
Varadarajaayar, E. S., 727
Varadpande, D. V., 779
K. V., 777
Varder, R. W., 678
Varis, S. A., 794
Varki, A. M., 798
Varley, G. C., 50, 61
W. J., 112
Varma, D., 718
K. G., 765
K. L., 710, 731
P. S., 731
R. K., 718
R. S., 757
S. C., 718
S. C., Ph.D., 810
S. P., 717
Varughese, K. C., 795
V. C., 795
Vasey, G. H., 599
Vasisht, B. R., 787
Vassallo, E. C., 800
V., 80
Vasudevan, A., 768
R., 728
Vaucher, P., 180
Vaughan, A. C. T., 115
F. M., 428
H. H., 376
J. M., 210
W. W., 287
Vaux, E. H., 255
Vazifdar, S. S., 735
Veal, T. H. P., 20
Veale, D., 247, 255, 259
E. W. W., 32
Veitch, G. S., 113, 320
W., 341
Velankar, H. D., 736
Velarde, F. X., 110
Vella, S. L., 800
Vellodi, M. U., 768
Vendryes, J., 326
Venkannaia, T. S., 772
Venkatachari, V. P., 783
Venkataramadikshitar, T. 727
Venkataraman, K., 734
R., 726
T. K., 764
V. R., 766
Venkataramaayyar, A. V. 766
S., 767
Venkataramanayyà, N., 763
Venkatarangaiya, M., 721
Venkatarao, C., 722
Venkataratnam, B., 759
Venkatarayùdu, T., 722
Venkatasubban, K. R., 726
Venkatasubbarao, B., 772
S., 767
Venkatasvaminattar, M., 727
Venkataswamy, T., 809
Venkatesachar, B., 818
Venkatesam, E., 721
Venkateshwaran, Mrs., 731
Venkateswaran, R., 807
Venkateswarasarma, V., 721
Venkateswarayyar, S. V., 764
Venkateswarlu, J., 722
Venketrao, G., 721
Venn, J. A., 50, 59
Ventris, E. M. E., 671
Venugopalachari, S. V., 767
Verbeke, G. J., 543
Verblunsky, S., 240
Verity, E. R., 79
Verkade, P. E., 123, 137, 148
Verma, A. N., 754
B. D., 737
Sheo Prasad, 777
Verney, E. B., 52, 55
Vernon, F. W., 460
Vernon Jones, V. S., 45, 57
Verrall, P. J., 209
Verscheldon, L., 517
Versey, H. C., 97
Versfeld, M., 658
Vershney, Y., 731
Verstraeten, A., 743
Verwoerd, L., 689
Vesey-FitzGerald, S. G., 223
Veyre, S., 175
Vézina, C., 480
F., 518
R., 478
Viatte, A., 477
Vicars, J., 616
Vick, F. A., 143
R. M., 214
Vickers, K. H., 345, xxvi
V. R. S., 184
Victoria, Gov. of, 595
Vidal, J.-A., 517
Vidyarthi, N. L., 722
Vigfussen, V. A., 541
Vigne, J., 151
Vignon, M., 40
Vijayaraghavan, T., 751

Vilakazi, B. W., 693
Viljoen, H. G., 680
S. P., 681
Villeneuve, J. H., 520
Cardinal J.-M. R., 476
Vilvandré, G. E , 212
Vinaver, E., 232
Vincent, C. J., 119
C. J., Canada, 533
E. R. P., 47, 54
Mrs., 99
Vincenti, R., 801
Viner, N., 489
Vines, H. W. C., 210
Vining, C. W., 100
Vint, J., 32
Vinycomb, T. B., 225, 226
Vion, Rev. L , 764
Virabhadrudu, T., 782
Viramani, V. R., 727
Virdi, D. S., 777, 778
Virmani, D. C., 810
Virtanen, A. I., 76, 137
Virtue, J. E., 627
Vischer, H., 187
Visvanathan, R. K., 727
Viswanatha, A., 767
Vlastos, G., 534
Vogan, H. J., 616
Vogel, A. I., 225
Voller, K. A., 37
Vollum, R. L., 254, xxv
Von Bonde, W., 669
Von Hayek, F. A., 180
von Heine-Geldern, F. R., 148
von Lindheim, B., 82
Vonwiller, O. U., 615
Voss, V., 682
Voyer, R. M., 515
Vulliamy, E. O., 46, 58
Vyas, B. N., 757
B. N., LL.B , 733
B. N., Law Coll., 731
Vyvyan, J. M. K., 62
M. C., 226

WACE, A. J. B., 44, 58, 72, 156
Wacey, G. M., 158
Waddams, Rev. C. D., 59
Waddell, M. E. G., 552
Waddington, C. H., 50, 54
S. P., 226
Waddy, R. G., 618
Wade, E., 90
E. C. S., 51, 56, 137, 156
H., 373
J. O. D., 333
W. N. L., 215
Wade-Gery, H. T., 267
Wadham, S. M., 599, 602
Wadia, A. R., 772
P. A., 736
S. M., 735
Wadiyar, Sri K., 771
S. K. N., 771
Wadsworth, T. W., 114, 116
Wafaqani, S. M. Y., 783
Wager, L. R., 289
Wagg, F. E., 544
Wagner, A. I., 693, 694
Wagner, O. J. M., 688
Wagstaff, J. E. P., 82
Wahid Mirza, Md , 758
Waines, W. J., 505, 512
Wainman, L. M., 101
Wainwright, J. W., 587
W. G., 239
Waismann, F., 76
Wakeford, G. W., 347
Wakeley, C. P. G., 150, 156, 214
Walbank, F. W., 111
Walder, P. S., 289
Walderström, H., 118
Waldie, J. S. L., 290, 292
Waldman, W. H., 3004
Waldock, A. J. A., 614, 621
C. H. M., 258, 264
Waley, A. D., 187
Wali Ullah, 731
Walker, A. G., 113
A. G., LL.B., 369
A. R., 572
A. R. E., 659
Rev. A. S., 466, 474
A. S., 617, 618
C., 23
C. E., 532, 533
D. G., 215
E., 248
E. A., 47, 60
E. B , 677
E. H., 237
E. I., 550
E. M., 548
E. R., 614
F., 31
F., Ph.D., 659
G., 525
G. J., 21
H., 350
Hilda, 23
J., 186
J. A., 467
J. C., 63
J. I., 573
J. R., 506
K. M., 214
Rev. L. J., 269
L. M., 376
M., 642
N. M., 117
N. T., 358
O. J., 449
O. J., Ph.D., 140
R. G., 319
R. S., 358
S. B., 506
T. K., 239
W., 178
W. A., 398
W. J., 695
W. O., 500
Walkley, A., 591
Wall, G. M., 522
R. C. B., 207
T. F., 298
Wallace, E. S., 618
Rev. E. W., 561, 570
G. A., 488
Wallace, H. L., 372
J. A., 416
J. C., 55
J. E., 111
M., 759
M. W., 549, 560
R. B. P., 125
R. C., 532
R. S., 613
T., 36
T., Wales, 332
W. S., 547
Wallas, M., 180
Waller, Rev. C. C., 573, 575
L. K., 83
M. D., 320
R. D., 241
Wallis, Rev. C. S., 79, 82, 83
F. S., 32
J. P. R., 681
T. E., 211
Walls, E. W., 382, 391
Wallwork, R., 638
Walmsley, C., 466
H. P., 240
R., 366
T., 405
Walpole, H., 533
V., 688
Walsh, A. L., 492
C. H., 117
H. N., 428
J. P., 465
T., 432, 433
W. H., 263
Walshe, F. M. R., 207, 208
M. O. C., 141
Walter, D., 550
F. H , 550
O. H., 590
Walters, Rev. D. M. I., 754
Walton, Sir A. J., 214
C. H. A., 507
C. L., 36
E. T. S., 412, 415
G., 335
J., 382, 390
L. B., 370
T., 21
Wanamali, V. R., 778
Wankhade, O. M., 777
Wanklyn, H. G., 46, 63
Wansbrough-Jones, O. H., 62
Wapshaw H., 388
Warburg, E. F., 191
Ward, A. F. H., 239
B., 349
E. E., 168
Rev. E. H., 25
G. E. S., 207
H., 157
H. G., 112
H. K., 617
I. C., 186
J., 295
J. F., 235
J. P., 634
L. Singlehurst, 150
M., 111
S. G., 22

Wardale, W. L., 399
Wardell, A., 555
Warden, W. M., 158
Wardill, W. E. M., 89, 90
Wardlaw, C. W., 835
H. S. H , 613
W., 176
Wardle, R. A., 505
Rev. W. L , 238, 242
Ware, W. M., 185
Warhurst, E., 230
Waring, H., 359
Wark, D. C., 591
J. McF., 601
Warmington, E. H., 176
Warne, F. J., 31
L. G. G., 230
Mrs., 39
Warner, A. J., 678
E. C., 207
N. W., 506
W. P., 557
Warnock, F. V., 409
Warrell, A., 31
Warren, A. E., 500
G. C., 447
H. V., 461
Ll. A. H., 503, 512
O. M., 598
P. S., 450
S. H., 90
Wartski, I., 187
Warwick, F. W., 424
W. T., 210, 214
Washington, E. J., 506
Wason, C. R., 380
Wasteneys, H., 548
Waterhouse, C. E., 236
E. G., 615
E. K., 40, 262
Rev. E. S., 199
F. L., 400
G., 406, 409
J. F., 21
L. L., 615
O., 673
W. L., 613
Watermeyer, G. A., 695
Waters, E. T., 554
F. W., 501
R., 648, 649
W. A., 81
Waterston, D., 397, 403
Watkin, E. E., 313
H. G., 118, 238
M., 323
Watkins, A. E., 50
A. G., 331
H. T., 36
S. B., 607
S. H., 335
Watkyn-Thomas, F. W., 205
Watling, M. I., 271
Watney, Mrs., 462
Watson, A. G. D., 57
A. M., 385
A. Pirie, 373
B., 512
C. T., 300
D. M. S , 40, 144
Watson, E. E., 534
E. M., 574
E. V., 110
F. R. B., 33
G. N., 101
G. N., Sc.D., 22
Rev. H. A., 76
H. E., 140
H. G. I., 487
I. A , 613
J. A. S., 255, 266
J. C., 367
J. M. R., 341
J. P., 371
J. W., 296
M. B., 552
M. B , Ph.D., 358
R. W. Whitfield, 23
S. W., 678
W. G., 465
W. H., 487
W. J., 380
Watson-Jones, R., 117
Watson-Williams, E., 34
Watt, A. S., 44
G. V., 118
H., 364
Rev. H., 368, 375
J. C., 547
J. M , 697
L., 363
M. N., 635
R. D , 613, 620, 621
W. S., 258
Watters, J. A., 523
Watts, E. H., 449, 453
Rev. J. O., 534
P. R., 614, 616
S. S., 144
W. P. T., 90
Waud, R. A., 574
Waugh, O. S., 507
T. R., 490
Way, A. G., 176
J. A. H., 383
S. A., 89
Wayne, E. J., 300, 305
Weatherbe, P., 469
Weatherburn, C. E., 627
Weatherseed, J. J., 486
Weaver, J. R. H., 251, 266
W. G., 660
Webb, A. E., 144
A. H., 173
C. G., 832
G. F., 43
H. A., 63
H. R., 452
I H., 597
J. S. W., 597
K. R., 96
M., 125
R. A., 210
R. M., 616
W. P., 148
Webb-Johnson, Sir A. E., 214
Webber, W. J., 552
Webster, A. Blyth, 398, 402, 403, 404
B., 498
Webster, C. K., 180
D. E., 83
F., 807
H. C., 605
H. J., 332
J. H. D., 212
J. S., 830
T. B. L., 230
W. M., 648, 649
Wedd, N., 56
Weddell, A. G. M., 139
Wedgwood, A., 87
C., 619
C. H., 613
G. A., 174
Weekes, Rev. G. A., 60
Weekley, E., 344
Weeks, L. M., 89
Weevers, Th., 141, 191, 193
Mrs., 192
Wei-Chang, W., 254
Weidenreich, F., 137, 148
Weil, G., 814, 815
Weill, A., 817
Weigand, H. J., 567
Weinberg, S., 103
Weinbren, B., 696
Weinloss, C. H. W., 449
Weinmann, H., 693
Weintroub, S., 347
Weir, A. R., 541
Rev. C. J. M., 384
E. R., 384
G. M., 460
J., 384
J., B.Sc., 487, 488
J. A., LL.B., 450
Weiss, R., 142
Weissenberg, K., 347
Weit, R., 358
Weitzman, S., 20, 21
Weizmann, Ch., 814
M., 814
Welbourne, E., 47, 55
Welch, A. J. E., 176
Welchman, W., 697
W. G., 61
Weld, C. B., 467
Weldon, T. D., 262
Welford, A. W. Baker, 178
Wellek, R., 162
Weller, E. P., 56
F. C., 803
G. A., 596
Wellings, A. W., 24
Wellington, J. H., 693
Wellish, E. M., 615
Wells, A. F., 267
A. K., 151
A. Simpson, 661
C. A., 117
F. A., 339
G. P., 144
J., 35
L. H., 692
R. B., 453
Welpton, W. P., 107
Welsford, E. E. H., 46, 64
R., 160
Welsh, B. L., 144

Welsh, M. E. H., 700
S., 295
Welty, Rev. E. J., 553
Wemer, A. E. A., 413
Wemyss, F., 810
Wemyss Smith, S., 43
Wendling, A. V., 514, 515
Wensley, A. J., 176
Wentworth-Sheilds, F. E., 348
Wentzel, L. M., 683
Werner, E. A., 413
Wernham, R. B., 266
Wertenbaker, T. J., 250
Wertheimer, E., 815
Wesley, R. W., 557
West, A., 449
C. McL., 322
Rev. E. C., 41
F., 232
F. L., 522
J., 808
J. H., 332
R. W., 225
W. J., 255
West-Oram, F. G , 298
Westcott, C. H., 359
F. J., 554
I. M., 327
Western, J. H., 314
Westlake, H. D., 86
Westoll, T. S., 358
Weston, F. M., 400
I. W., 646
Westwater, C. H., 88
Wetmore, F. E. W., 549
Whaite, H. C., 158
Whale, G. B. M., 323
G. R., 680
Rev. J. S., 70
P. B., 179
Whalley-Tooker, H. C., 51, 55
Wharton, J., 236
L. C., 162
Wheare, K. C., 250, 259, 264
Wheatcroft, E. L. E., 103
Wheatley, B., 101
Wheeler, A. E., 95
A. Ll., 504
D., 503
J. R., 408
O. A., 323, 329
R. E. M., 40, 139, 163
R. V., 298
Wheelock, F. E., 446, 447
Wheldon, R. W., 88
Whelton, A., 429
Whetton, J. T., 87
Whewell, C. S., 103
Whibley, L., 58
Whidden, E., 447
H. P., 445, 500
Whiddington, R., 98, 320
Whillis, J., 202
R., 89
Whitaker, H., 96
P. H., 117
R., 31, 37
Whitby, L. E. H., 202
White, Rev. A. H., 244
A. K., 385
White, A. L., 217
B. M. I., 174
C., 209
C. J. L., 634
C. M., 168
C. T., 606
F. D., 503
F. P., 48, 59
F. W. G., 639
G., 810
H. M. O., 406
J., 394
J. D., 212
J. F. D., 638
J. H., 550
J. R., 635
K., 111
K., C.A., 657
K. T., 677
L. W. T., 659, 665
M., 387, 388
M. J., 41
M. J. D., 144
N. L., 209
P., 289
R., 426
R. G., 318
R. J., 47
Rt. Rev. W. C., 548
W. H., 211
W. W., 124
White-Cooper, R. C., 145
Whitehead, A. N., 61
F., 232
G , 237
H. C., 29
J. H. C., 251, 258
L. G., 174
R., 236
R. B., 66, 708
T., 319
W. E., 493
Whitehouse, F., 616
F. W., 606
Sir H. B., 24
L. E., 63
W. E., 312
Whiteley, C. H., 22
Whitelock, D., 271
Whitely, S., 820
Whiteside, H. W., 561
Whitfield, H. E., 626
J. H., 251
Whiting, Rev. C. E., 82, 83
M. H., 209
Whitington, L. A., 588
Whitlam, A. G., 596
Whitley, E., 248
Whitmore, E. F., 542
Whitnall, S. E., 30
Whitney, Rev. J. P., 45, 55
Whitrow, G. J., 259
Whittaker, E. T., 369
J. M., 113
J. R., 240
M., 339
Miss, 197
W. G., 385, 392
Whittard, W. F., 31
Whittemore, T., 137, 148
Whittet, J. M., 616
Whittick, G. C., 86
Whittingdale, D., 660
Whittles, C. L., 390
Whitton, J., 366
Whitwill, G. C., 31
Whyte, A. H , 90
M. K. B., 634
R., 402
W. H., 31
Whytlaw-Gray, R. W., 95, 104
Wicht, J. F., 661
Wickens, G. W., 626
Wickramasuriya, G. A. W., 823, 824
Widdows, S. T., 203
Wiehe, O., 826
Wigglesworth, L. A., 142
V. B., 204, 214
Wigham, J. T., 416
Wightman, W. A., 96
Wigley, J. E. M., 203
Wild, J. A., 688
Wijerama, E. M., 822, 823, 824
Wijesekera, O. H. de A., 821
Wilberforce, R. O., 257
Wilcher, L C., 598, 601
Wilcock, A. W., 336
Wilcocks, R. W., 687, 688
Wilcockson, W. H., 296
Wild, E. H., 678
Rev. J. H. S., 267
L. W., 312
W., 96
Wildman, C. H., 232
L., 232
Wilenski, R. H., 230, 246
Wiles, G. G., 694
P., 209
R. McK., 500
Wilgar, W. P., 533
Wilhelm, J. O., 553
Wilkes, M. V., 48
Wilkie, A. L., 491
Sir D. P. D., 123, 380
J. S., 203
Wilkin, F. A., 460
Wilkins, Rev. G. S., 188
J. L., 341
W. H., 248, 261, 265, 267, 269
Wilkinson, B., 246, 551
C. H., 73, 268, 283
F. C., 238
G., 299
G. L., 102
H. J., 605, 607
J., 110
J. F., 235, 236
J. T., 295
K. D., 24
L., 613, 620
L. P., 45, 57
R. H. E., 229
T. B., 328
Wilks, J. A., 139, 142
Will, J. S., 550
Willan, H., 553

Willan, R. J., 90
T. S., 231, 233
Willard, A. C., 552
Willat, J. F., 81
Willcock, G. D., 194
Willcox, J. S., 99
Wille, G., 659
Willemse, W. A., 682
Willey, B., 46, 58, 63
William, A., 451
J. Ll., 320
Williams, A. I. J., 341
B. W., 214
C. C., 225
C. G., 556
C. H., 152
C. H., B.Sc., 607
C. H. M., 559
Rev. C. S. C., 263
C. T., 313
D., 168
D., Wales, 323
D. C., 347
D. E. P., 323
D. R., 313
D. T., 328
Edna, 178
E., 86
E. C., 331
E. H., 634
E. H. G., 209
E. J., 124, 313
E. M., 332
Mrs. E. M., 225
E. R., 212
E. S., 326
E. T., 263
G., 220
G., M Sc., 407
G. E. O., 117, 214
G. J., 324
G. L., 51
G. M., 543
H. M., 318
H. S., 708
Ifor, 318
Illtyd, 32
Ivor, 317, 329
Ivy, 271
J., 229
J., N.Z., 644
J. E. C., 318
J. K., 312
J. R., 104
J. W., 399
L. H. W., 209
L. V., 759
M., 316, 327
Mrs., 192
M. Y., 461
Rev. N. P., 255, 259, 260
N. T., 232, 240
O. H., 118
O. T., 174
R., 319
R. A., 47, 59
R. D., 314
R. E., 249
R. F., 590
R. P., 204
Williams, R. T., 23
S., 382
S. J., 328
T. P., 312
W. E., 156
W. J., 423
W. K., 596
W. L. G., 486
W. M., 327
W. N., 63
Rev. W. R., 307
W. W., 46
Williamson, A. V., 97
B., 379
C., 389
E. M., 194
Rev. E. W., 308, 323
G., 37
G., M.B., 361
G. A., 362
H. S., 273
J. A., 256
N. T., 491
R., 52
R. S., 46
S. A., 220
Williamson-Noble, F. A., 209
Willis, J., 467
Willison, Rev. N., 544
Willmer, E. N., 49, 54
Willoughby, L. A., 141
Wills, E. P., 639, 646
L. J., 21
Willway, F. W., 35
Wilmot, H. G., 542
Wilsdon, B. H., 104
Wilshere, A. M., 32
Wilson, Aileen, 336
A. H., 48, 62
A. V., 239
Sir C., 207, 220
C. H., 56
C. H., London, 180
C. I., 176
C. L., 140
C. L., Belfast, 406
C. P., 205
C. T. R., 60
D. J., 573
D. M., 393
D. MacL., 447
E. M., 50
E. V. B., 407
F. H. H., 622
F. J., 393
F. P., 191
G., 141
Gregg, 405
G. E., 466
G. E., M.B., 558
G. H., 24
G. H. A., 54
G. S., 649
G. S., M.D., 202
G. T. J., 639
H. B., 201
H. C., 599
H. E. C., 388
H. W., 214
H. W., M Sc., 596
Wilson, H. Warren, 145
I., 181
I. M., 311
J. A., 389
J. B. F., 300
J. C., 574
J. C. M., 115
J. Dover, 53, 123, 368
J. Greenwood, 331
J. G., 234
J. H., 267
J. L. J., 618
J. S., 255
J. St. G., 117
J. T., 60, 577
K., 176
K. A., 488
L. A., 589
M., 367
M. A. M., 370
M. B. F., 390
M. J., 559
N. J., 360
N. R., 505
P. A., 179
R., 328
R. A., 542
R. L., 81, 82
Rev. R. L., 788
R. M., 97
R. M., B.Sc., 184
R. S. L., 452
S. L., 238
T. G., 589
W., 192
William, 371, 377
W. A., 453
W. A., S.A., 698
W. C., 371
W. F., 89
W. H., 169
W. J., 94
W. J., M.D., 408, 409
W. S., 555, 563
Wilton, J. R., 588
T. R., 115
Wiltshire, M. O. P., 33
Winchester, L., 111
Winckworth, C. P. T., 52
Wind, E., 143
Winder, W. H. D., 312
Windeyer, J. C., 617
W. J. V., 617
Windle, J., 395
Winfield, G., 98
G. A., 469
P. H., 51, 60
Wing, R. A., 312
Wingfield, C. A., 359
Wingate, R., 189
Winn, C. M., 187
Winnett, F. V., 553
Winnington-Ingram, R. P., 176
Winspear, F. G., 449
Winstanley, D. A., 61
L., 312
Winstedt, Sir R. O., 188
Winston, C. E., 618
D., 110

Winston, J. H. E., 216
Winter, L. B., 297
R. M., 536
Winterbourn, R., 638
Winter Moore, A., 677, 678
Winterton, W. R., 209
Winton, F. R., 143
R. L., 542
Winzor, F. L., 587
Wippell, Rev. J. C., 78
Wiren, R. C., 555
Wisdom, A. J. T. D., 49, 62, 63
Wiseman, E. M., 292
J., 35
W. R. B., 627
Wishart, G. M., 385
F. O., 556
J., 50
Witchell, E. F. D., 168
Witenberg, G., 815
Withers, Sir J. J , 18, 59
Witney, M., 37
Witte, W., 359
Wittgenstein, L., 49
Witts, L. J., 254, 262
Wodehouse, H. M., 63
Woledge, B., 141, 358
G., 405
Wolf, A., 169
A , D.Lit., 127, 142, 180
Wolfe, H. R. I., 332
S. E., 556
Wolfenden, H. F., 118
J. H., 248, 260
Wolff, E., 315
G., 137
M., 286
R., 657, 662
Wolffsohn, G., 815
Wolmarans, H. P., 682
Wolters, A. W. P., 290
Womersley, W. D., 51
Wong, R. J., 803
Wood, A., 49, 55
A., Ph.D., 169
A. C., 305, 340
A. E., 187
A. H. H., 678
C. B., 460
C. E., 20
Rev. C. T., 45, 59
D., 35
D. O., 143, 146
E., 198
E. J., 96, 316
F. G. C., 460
F. L. W., 644
F. M., 486, 487
G., 626
G. L., 596
G. W., 505
H. G., 364
H. H., 368
H. J., 151
H. L., 214
H. P., 231
J. F., 87
J. G., 587
J. K., 239, 242, 708
J. W., 103
Wood, Mrs. M., 294
M. E., 626
N., 101
P. W., 48, 55
R. C., 836
R. G., 324
S. N., 462
T. J., 102
W. A., 366
W. H., 109, 120
W. H., S.A., 678
W. Q., 373
Woodbridge, A. K., 335
Woodbury, F. V., 468, 470
K. F., 469
W. W., 470
Woodcock, E. C., 231
J. N., 549, 569
Woodger, J. J., 203
Woodhead, N., 317
W. D , 485
Woodhill, A. R., 616
Woodhouse, A. S. P., 549
Woodley, E. T., 336, 337
Woodman, D., 35
E. M., 23
H. E , 50
Woodruff, H. A., 599, 601
Woods, A., 573
D. S., 504
E. C., 118
E. L., 542
H. J., 103
J. C., 208
M. W., 597
Sir R. H., 420
Sir R. S., 211
W., 237
W. W., 210
Woodside, C. J. A., 405
M. St. A., 551
Woodward, A., 194
A. M., 296
E. Ll., 257, 264
F. H., 63
G., 64
W. E., 51
Woodwark, Sir A. S., 207
Wookey, H. W., 558
Woolridge, G. H., 227
S. W., 151, 225
W. R., 202
Woolf, Rev. B. L., 199
E. B., 697
Woolfe, G., 237
Woolham, J. G., 234
Woolley, R. v. d. R., 43
V. J., 211
Wooster, W. A., 48
Woozley, A. D., 265
Worcester, W. G., 543
Wordie, J. M., 60
Worley, F. P., 641
Wormald, B. H. G., 58
H., 226
Wormall, A., 202
Wormell, D. E. W., 327
T. W., 43
Worner, H. K., 598
Worsley, S. J., 125
Worsnop, B. L., 152
Worster-Drought, C. C., 208
Worth, R., 208
Worthington, G. A., 639
Wortley, B. A., 233
H. A. S., 339, xxvi
Wragge, S., 86
Wray, D. A., 344
D. C., 406
P., 470
Wren, H., 409
T. L., 142
Wrenn, C. L., 249
Wrenshall, C. L., 492
Wrigglesworth, R. H., 363
Wright, A., 298
A. D., 214
A. G., 299
Sir Almroth, E., 202, 211
A. J. M., 34
B. A., 346
Rt. Hon. Baron, 42
B. D., 335
Rev. C. J., 239
C. P., 542
C. S., xxvi, xxviii
E. A., 37
E. M., 359
F. I., 98
G., 613
G. F., 549
G. J. Hornsby, 55
G. L., 616
G. P., 210
H. D., 115
H. G., 317
H. P., 490
H. W., 505
J., 124
J. A. S., 215
J. D., 232
J. G., 548
J. H., 387
J. N., 399
L., 328
M. C., 232
M. M., 390
N., 543
N. C., 385
P., 318
R., 383
R. B., 116
R. C., 623
R. D., 598
R. H., 525
R. P., 81
R. P., M.D., 490
S., 211
S. J., 255
T., 22
T. E., 265
T. E. M., 792
W. D., 170
W. G. D., 393
W. J., 525
W. J. T., 555
W. S., 639
W. T., 793
W. W., 557
Wrigley, A. J., 209

Wrigley, F. G., 235
Wrinch, Mrs. D. M., 270, 271
Wyatt, F. A., 451
J. M., 209
S., 234
T. C., 51, 53
Wyburn, G. M., 382
Wycherley, R. E., 231
Wyers, E. E., 683
Wyld, H. C. K., 249, 263
Wylie, Mrs. G. M. K., 659
J. K., 659
S., 259
S. M., 390
Wyllie, J., 184
J., Canada, 536
W. G., 221
Wyndham, N. R., 618
Wynham-White, E. H., 223
Wynn, Rev. H. E., 58
W. H., 24
Wynn Jones, Ll., 96
Wynn-Williams, C. E., 170
Wynne, A. M., 548
Wynne-Edwards, V. C., 487
Wynne-Jones, W. F., K., 294, 398

XUEREB, P., 801

YAHYA, M., 750
Yajnik, J. S., 730
N. A., 787
Yakobson, S., 162
Yan, C. S., 804
Yapp, E. N., 170
Mrs., 246
Yarley, H., 236
Yarnold, G. D., 341
Yarrill, E. H., 457
Yates, A., 168
C. C., 648
D., 359
D. E., 110
E. L., 297
Yates, F., 227
H. B., 300
H. J., 288
M. L., 240
Yealland, L. R., xxvi
Yeates, J. S, 648
Yeats, J. P., 688
Yeaxlee, B. A., 249
Yelle, G., 515
Yellin, D., 815
Yellowlees, H., 208
Yemm, E. W., 30
Yeo, C. A., 465
K. C., 804
Yeoman, E. W., 169
Yetts, W. P., 161
Yeung, Li Kai, 803
Yewdall, A., 103
Yin-koh, C., 254
Yoffey, J. M., 322
Yonge, C. M., 33, 38
Yorke, E. C., 263
F. R., 233
W., 118
Yoshitake, S., 187, 188
Youmans, R. W., 508
Young, A., 388
A. F., 91
A. M., 671
A. W., 489
C. B., 754
C. L., 324
C. R., 555
C. W., 409
E. G., 467
Rev. E. J., 416
F., 461
F., S.A., 694
G., 386
G S., 556
G. T., 31
G. W., 151
J., 22
J., M.D., 209
J. F. T., 505
Young, J. I., 289
J. S., 361
J. Z., 253, 262
L., 143
L. C., 659
M., 139
R., 792
R. C. H., 169
R. F., 388
R. K., 548
W. A., 829
W. J., 595
Younger, A. J., 385
Youngson, A., 24
Yssel, G., 675
Yu, D., 186, 188, 189
Yule, E. T. P., 673
G. U., 60
J., 235
Yunus, S. M., 785

ZACHARIAH, K., 742
Zacharias, C. W. B., 726
Zafir, K., 186
Zaheer, Sd. H., 758
Zahid Ah, 765
Zaidi, M., 784
S. S. H., 754
Zainabi, A., 760
Zapffe, F., 473
Zanstra, H., 248
Zernov, N., 162
Ziegler, C. H., 58, 63, 76
Zilva, S. S., 202
Zimmer, A. R., 555
Zimmern, Sir A. E., 253, 263, 305
Zinnemann, K. S., 101
Zohary, M., 814
Zondek, B., 815
Zuberi, A. E., 713
Zuckerman, S., 247
Zutshi, J. K., 755
Zwarenstein, H. J., 660
Zweerts, F., 669

GENERAL INDEX

Note.—References to subjects, *e.g.* Chemistry, English, History, etc., which may be studied at every or almost every University are too numerous to include in the Index. Special branches of such subjects and special subjects, facilities for the study of which are provided only by certain Universities, are indexed.

Abbreviations of qualifications, general, viii-x
of titles of degrees, 4-14
Aberdeen Univ., 357
Admission, 859-62
Aberystwyth Univ. Coll., 311
Académie de Droit Internat. de la Haye, 915
Acadia Univ., 446, 493
Accountancy—
Gt. B. and I., 19, 31, 85, 96, 111, 179, 229, 336, 339, 345, 357, 366. 382, 406, 413, 423, 428, 432
Overseas, 449, 460, 476, 484, 505, 518, 532, 537, 541, 547, 587, 596, 614, 623, 626, 633, 638, 641, 657, 669, 672, 677, 681, 736, 750, 803
Accountants—
Chartered, Inst. of, 993
Chartered, of Scotland, 995
Company, Inst. of, 996
Cost and Works, Inst. of, 996
Incorporated, Soc. of, 994
London Assn. of Certified, 994
Ontario Inst. of Chartered, 537
Soc. of, Aberdeen, 995
Soc. of, Edinburgh, 995
Accountants and Actuaries, Inst. of, Glasgow, 995
Acholi, 186
Actuarial Science, 366, 503, 694, 736
Actuaries—
Fac. of, in Scotland, 997
Inst. of, 997
Adelaide Univ., 587
Admission of Students. *See* Students
Adult Education, 16. *See also* University Extension
British Inst. of, 17
Committee, 17
Residential Colls. for, 282
Scholarships, 878
Advocates, 1024
Aeronautical Engineering. *See* Aeronautics
Aeronautical Soc., Royal, 1012
Aeronautics, incl. Aeronautical Engin. and Aerodynamics, 51, 166, 174, 228, 346, 597, 936, 946, 947, 957
Res. Fellowship, etc., 890
Travelling Scholarships, 877
African Life and Languages, 186, 657, 659, 669, 675, 681, 687, 692
See also individual langs.
Studies, School of Oriental and, 186
Agra Univ., 710
Agricultural Bacteriology, 227, 290, 360, 371, 376, 389, 425, 493, 505, 648, 834, 922, 924
Biochemistry, 36, 224, 290
Biology, 30, 50, 224, 826, 926
Book-keeping, 255, 314, 319, 357, 389, 518, 605, 826
Botany, 36, 37, 88, 99, 184, 224, 230, 290, 313, 319, 322, 362, 376, 390, 407, 425, 518, 591, 595, 613, 626, 648, 683, 810, 826, 834, 922, 924, 985
Nat. Inst. of, 921
Chemistry, 36, 37, 50, 88, 99, 184, 224, 225, 230, 290, 313, 319, 360, 362, 371, 376, 390, 407,

Agricultural Chemistry (*contd.*)—
425, 492, 587, 590, 591, 599, 613, 626, 648, 683, 689, 690, 810, 826, 834, 924, 966, 974, 976, 985
Co-operation, 683
Economics, 36, 50, 88, 99, 184, 231, 255, 290, 313, 319, 362, 389, 407, 492, 561, 646, 648, 683, 689, 737, 814, 834, 923, 925
Oxford, Res. Inst., 281, 932
Engineering, 50, 99, 184, 255, 314, 376, 389, 451, 492, 505, 543, 561, 599, 605, 646, 683, 689, 737, 826
Oxford, Res. Inst., 281, 933
Entomology, 36, 185, 235, 242, 255, 291, 362, 371, 493, 506, 518, 590, 599, 646, 683, 689, 737, 826, 835, 926, 985
Examn. Bd., Nat., 998
Fermentation, 922
Law, 255, 360, 389, 646
Mycology, 36, 50, 88, 99, 185, 291, 313, 648, 826, 834, 922, 967, 985
See also Plant Pathol.
Parasitology, Imperial Bureau, 929
Inst. of, 928
Physiology, 50
Surveying, 88, 255, 376, 389, 591, 826
See also Soil Surveys
Zoology, 88, 99, 184, 319, 322, 362, 376, 407, 425, 648, 835
Research Scholarship, 880
Agricultural Research, Imp. Council of, India, 972
Agricultural Research Council, Grants and Scholarships, 878
Agricultural Research Institutes—
Benares, 731
Hillsborough, 932
New Delhi, 974
Research Station, Amani, 989
Agriculture—
Gt. B. and I., 30, 36, 50, 88, 99, 184, 281, 290, 313, 318, 322, 360, 362, 371, 376, 389, 407, 425, 429
Overseas, 451, 462, 476, 492, 495, 505, 518, 543, 544, 561, 587, 599, 605, 613, 626, 631, 646, 648, 683, 689, 737, 740, 768, 776, 810, 826, 834, 968
Agriculture (*contd.*)—
See also Rural Econ.
Colleges of, *Gt. B. and I.*—
Cirencester, 36
Edin. and E. of Scotland, 376, 924
Harper Adams, 923
Midland, 342, 923
North of Scotland, 362, 925
Seale-Hayne, 923
West of Scotland, 389, 925
Wye, South-Eastern, 184
Overseas—
Allahabad, 719
Amritsar, 789
Canterbury, N.Z., 646, 968
Cawnpore, 710
Coimbatore, 768
Hawkesbury, N.S.W., 620
Lyallpur, 789, 977
Mandalay, 810, 811
Massey, N.Z., 648, 968
Mauritius, 826
Muresk, Aust., 628
Nagpur, 776
Nova Scotia, Truro, Ont., 494
Oka, Montreal, 518
Ontario, 561
Peshawar, 789
Poona, 737
Roseworthy, 591
Ste. Anne de la Pocatière, 481
Stellenbosch-Elsenburg, 689
Trinidad, 834
History of, 50, 255, 451
N.Z. Dept. of, 968
Postgrad. Scholps., etc., 878, 912, 913, 914
Research and Inf., Centres of, *Gt. B. and I.*, 36, 92, 920-33
Overseas—
Australia, 590, 601, 963-7
Burma, 985
Canada, 954
East Africa, 989
India, 972-7
New Zealand, 648, 967-9
South Africa, 969-71
West Indies, 835
See also Tropical Agric. and special subjects
Agronomy, 462, 492, 591, 683, 826, 836. *See also* Rural Econ.
Agrostology. *See* Grass Breeding
Air Force, Royal, Commissions, 991

Albert Kahn Travelling Fellowships, 877
Alberta Univ., 449, 493
Aligarh Muslim Univ., 713
Allahabad Univ., 717
Alma College, 575
Amani Agricultural Research Station, 989
American Assn. of Univ. Women, Fellowship, 917
Inst., Prague, 1065
Univs., 1071
American University Union, 1066, 1067, 1071
Amharic, 186
Anatomy, Research Fellowships, etc., 895, 910
Andhra Univ., 721
Anglican Theol. Coll., B.C., 462
Anglo-Danish Students' Bureau, 1065
Anglo-German Academic Bureau, 1066
Anglo-Saxon, 43, 247, 413
Animal Biology, 153, 518
Animal Breeding, Small, Research Inst., 72, 930
Animal Diseases Research, 164, 217, 545, 562, 924, 927, 929, 958, 965, 968, 976, 988
See also Animal Pathology
Animal Diseases Research Assn., 929
Genetics. *See* Genetics
Imp. Bureau, 931
Inst. of, 931
Animal Health, Imp. Bureau, 928
Research Lab., 964
Research Scholarships, etc., 878
Husbandry, 407, 451, 462, 492, 505, 543, 561, 599, 605, 646, 648, 683, 685, 689, 826, 955
Research Insts., 929-32
Morphology, Research Studentship and Grants, 905
Nutrition, 425, 492, 561, 684
Imp. Bureau, 931
Research Insts., 73, 363, 592, 929, 930, 931, 965, 968, 970
See also Veterinary Dietetics
Pathology, 50, 469, 492, 505, 518
Inst. of, Cambridge, 927
Research Insts., 73, 927-9, 958
Res. Inst. in, R. Vet. Coll., 927
See also Vet. Pathol.
Population, Bureau of, 930
Animal (*contd.*)—
Products Research Foundation, 591, 592
Animals, Care of, 114
Annamalai Univ., 726
Anthropological Research, Bd. of, 592
Anthropology, 43, 312, 357, 366, 547, 613, 680, 741, 980
Cultural, 139
Physical, 247, 687
Research Prizes, 915
Social, 43, 53, 118, 179, 247, 256, 389, 657, 692
See also Ethnology
Anthropometry, 145
Apiculture. *See* Bees and Bee-keeping
Apothecaries, Soc. of, 1041
Applied Optics. *See* Optics, Tech.
Applied Science and Technology. *See* separate subjects
Research Fellowships, etc., 880-2
Appointments Boards—
Aberdeen, 364
Birmingham, 27
Bristol, 39
Cambridge, 71
Dublin, 420
Durham, 80
Edinburgh, 378
Exeter, 337
Galway, 433
Glasgow, 391
Leeds, 106
Liverpool, 122
London, 132
Imperial Coll., 172
Wye, 185
Manchester, 244
Nat. Univ. of Ireland, 422
Nottingham, 343
Oxford, 279
Reading, 293
St. Andrews, 403
Sheffield, 304
Southampton, 348
Wales, 309
Arabic, 52, 186, 239, 254, 366, 382, 416, 815. *Also* Indian Univs., 710-99
Egyptian, 186
Iraq, 186
Research Scholarships, 887
Sudanese, 186

Arabic (*contd.*)—
Syrian, 186
Arabic Studies, Research Fellowship, 914
Aramaic, 32, 52, 424
Archæology, 43, 81, 86, 109, 119, 139, 163, 247, 322, 335, 389, 405, 428, 547, 670, 692, 771, 800, 814, 1075
African, 657
British, 139, 163
Celtic, 248, 423, 432
Chinese, 161, 548
Classical, 20, 44, 96, 109, 247-8, 288, 366, 413, 548
Indian, 139, 187, 763
Inst. of, Liverpool, 119
London, 163
Near Eastern, 163, 814
Palestinian, 163, 814
Prehistoric, 366
Research Scholarships, 882-4
Welsh, 949
See also Anthropology
Architects, Registration of, 1002
Royal Inst. of British, 1000
Bursaries, 883
Architecture—
Gt. B. and I., 43, 85, 110, 145, 146, 229, 288, 295, 322, 362, 393, 409, 423, 428
Overseas, 449, 484, 503, 519, 555, 595, 606, 613, 631, 633, 641, 659, 680, 692, 784, 800
Bartlett School of, 145, 146
Ecclesiastical, 110
Glasgow School of, 395
History of, 358, 680
Research Scholps., Studentships, etc., 882-3, 913
Armenian, 186
Armidale, New England Univ. Coll., 619
Army Commissions, 69, 277, 991
Art—
Gt. B. and I., 19, 31, 36, 43, 85, 140, 160-1, 194, 248, 288, 340, 358, 367, 395, 405
Overseas, 447, 465, 493, 523, 536, 541, 544, 548, 560, 631, 638, 641, 659, 673, 677, 678, 692, 740, 797, 814
Byzantine and Near Eastern, 161, 814
Art (*contd.*)—
Chinese, 161
Civic, 296
Courtauld Inst. of, 160
École de Dessin, Montreal, 519
Egyptian, 109
Engraving, Research Scholp., 882
Glasgow School of, 395
Goldsmiths' School of, 227
Gray's School of, Aberdeen, 362
History of, 140, 161, 230, 413, 513, 638
Afrikaans, 681
Indian, 139, 161, 187
Ontario, Coll. of, 562
Painting, 85, 194, 288, 358
Hist. of, 97
Research Scholps., etc., 882, 883
Sculpture, 85, 288, 358
Research Scholp., 882
Slade School of, 146
Technology of, Hist. of, 161
Arts, Research Fellowships, Scholps., etc., 882-7
and Crafts, 311
"Ashb," 1060
Assam Medical Res. Society, 982
Assamese, 186
Assaying. *See* Metallurgy
Assumption College, 575
Assyriology, 52, 119, 150, 254
Astronomy—
Gt. B. and I., 43, 87, 142, 165, 248, 357, 367, 382, 405, 413, 946
Overseas, 476, 505, 548, 573, 743, 787, 789-91
See also Observatories
Astro-Physics, 43, 171, 487
Auckland Univ. Coll., 630, 641, 969
Auctioneers' and Estate Agents' Inst., 1003
Australia—
Commonwealth School of Pub. Health and Trop. Med., 620
Council for Sci. and Indust. Res., 963
Free Passages from and to, 586, 631, 877
National Research Council, 963
Australian Coll. of Dentistry, 601
Council for Educational Res., 911
Dairy Cattle Research Assn., 965

Australian (*contd.*)—
Science and Industry Endowment Fund, 911
Univs.—
Academic Year, 580
Admission, 580
Conference of, 586
Constitution, etc., 579
External Students, 585
Fees, 581
Periods of Study, 581
Residential Colls., 577
Statistics, 586
Vice-Chancellors' Committee, 586
Australian Univ. Students, Nat. Union of, 1064
Australian and N.Z. Assn. for Advancement of Sci., 963
Austria, Information Bureaux, 1066
Automobile Engineers, Inst. of, 937
Research Committee, 937
Aviation (Air Squadrons), 69, 131, 277
Aviculture, 518, 519

Bacteriology, Research Fellowship, etc., 895
Bakery, 395, 561, 562
Banana Research, 835
Bangalore, Indian Inst. of Sci., 818, 981
Bangor School of Theol., 307
Bangor Univ. Coll., 317
Bankers, Inst. of, 1005
Banking—
Gt. B. and I., 111, 153, 179, 230, 357, 367, 413, 423
Overseas, 518, 532, 681, 736
Courses and Lectures in, 537, 1006
Banting Inst., Toronto, 963
Banting Research Foundation, 908
Bantu, 188, 657, 680, 692
Native Administration, 680
Baptist Coll., Bristol, 37
Manchester, 241
Barnato-Joel Res. Labs., 219
Barnett House, 282
Barnsley Tech. Coll., 300
Barristers, Edn., and Examn., 1021, 1026
Bartlett School of Architecture, 145, 146
Battersea Polytechnic, 227
Bedford College, 191
Research Schol., 888
Bees and Bee-keeping, 99, 362, 390, 518, 977
Beit Fellowships, 892, 899
Belfast, Munic. Coll. of Tech., 409
Presbyterian Coll., 409
The Queen's Univ., 405
Admission, 865
Research Studentships, 900
Belgian Studies and Instns., 179
Benares Hindu Univ., 730
Bengal Tanning Inst., 978
Bengali, 52, 186, 730, 743, 744, 750
Research Scholarship, 887
Beri-Beri Research, 986
Berkeley Square Advisory Centre, 36
Bermuda Biological Res. Station, 985
Bernhard Baron Inst. of Path., 217
Bernhard Baron Labs., R.C.S., 952
Bethlem Royal Hospital, 215
Bible Churchmen's Missionary Coll., 79
Bibliography, 53, 141, 142, 151, 1080-4
Dental, 558
Biochemistry—
Gt. B. and I., 23, 30, 43, 90, 98, 101, 110, 143, 153, 166, 196, 202, 218, 219, 222, 224, 234, 248, 290, 299, 331, 339, 357, 395, 400, 405, 415, 426
Overseas, 449, 466, 467, 476, 484, 503, 532, 535, 541, 548, 572, 587, 595, 605, 613, 684, 687, 740, 742, 763, 767, 772, 818, 829
See also Chemistry in relation to Medicine and Chem. Physiol.
Courtauld Inst. of, 219
Pathological, 388
Research, 72, 219, 222, 928, 931, 932, 951, 952, 980, 988, 990
Fellowship, etc., 904
Biological Field Station, 170, 171, 933
Biological Standards. *See* Standardization, Biological
Biology, Res. Studentships and Grants, 905
Molteno Inst., 72, 928
Agricultural. *See* Agricultural Biology
Animal. *See* Animal Biology
Marine. *See* Marine Biology
Social. *See* Social Biology
Biometrics, Weldon Memorial Prize, 905

Biometry, 140, 559
Biophysics, 72, 405, 415, 605, 932
Birkbeck College, 176
Birmingham Univ., 19
 Admission, 842-5
 Research Fellowships, etc., 880, 890, 900, 907
Bishop Wilson School, 79
Bishop's Coll., Univ. of, 457
Bland-Sutton Inst., 219
Bleaching. *See* Dyeing and Bleaching
Board of Education—
 Grants to Training Depts., 4
 Scholarships, 15-16
 Studentships, 889
 Whitworth Scholps., 889
Bombay, R. Inst. of Science, 736, 981
 Univ., 734
Boot, Shoe, etc., Res. Assn., 938
Bose Research Inst., 980
Botanic Gardens, Royal, 377, 920
Botany—
 Cryptogamic, 230
 Research and Inf., Centres of, 920-7
Bourse Curie, 915
Bourses Universitaires, 914
Bradford Chamber of Commerce, Grants, 887
Brandon Coll., 508
Brewing, 22, 375
Bristol, Baptist Coll., 37
 Univ., 30
 Admission, 846
 Res. Scholarships, etc., 871, 907
British Academy, Res. Prizes, 883, 884
 Association, 949
 Columbia Univ., 459
 Council, Scholps., 872
 Dairy Institute, 291
 Federation of Univ. Women Scholps., 872, 882, 900
 Institute in Paris, 1066, 1077
 Scholarships, 872
 Inst. of Adult Education, 17
 Institute of Florence, 1066
 Interchange Council, 1057
 Library of Information, N.Y., 1072
 Medical Assn., Scholps., 892
 Museum Laboratory, 946
 (Nat. Hist.), 948
 Postgrad. Medical School, 216, 1035
British (*contd.*)—
 School of Archæol. at Athens, Studentships, etc., 883
 School at Rome, Scholps., etc., 882
British-American Assn. of Phi Beta Kappa, 1073
Brompton Hospital, 221
Brown Animal Sanatory Instn., 164
Buckstone Browne Research Farm, 952
Buddhist Hist. and Lit., 187
Building, 145, 239, 255, 290, 295, 319, 362, 375, 393, 395, 409, 413, 478, 606, 680
 Research Station, 937
Bureaux of Information, 1063-8
Burmese, 52, 186, 808
Bushman Languages, 657
Business Administration and Method, 179, 357, 366, 406, 413, 428, 533, 572, 626, 657, 677, 750, 803
 Scholarships, 888
Busk Trustees, Studentship, 890

Cacao Research, 835
Calcutta, All India Inst. of Hyg. and Public Health, 742
 Univ., 740
Calgary, Provincial Inst. of Tech. and Art, 454
Camborne School of Metalliferous Mining, 241
Cambridge Colleges—
 Christ's, 53
 Res. Studentship, 872
 Clare, 54
 Res. Studentship, 872
 Constitution of, 65
 Corpus Christi, 54
 Downing, 55
 Emmanuel, 55
 Res. Studentship, 873
 Girton, 63
 Res. Fellowships, 873, 882, 884, 886, 905
 Gonville and Caius, 55
 Jesus, 56
 King's, 56
 Magdalene, 57
 Newnham, 64
 Research Fellowship, 887
 Pembroke, 58
 Res. Studentship, 907

Cambridge Colleges (*contd.*)—
Peterhouse, 58
Queen's, 59
St. Catharine's, 59
St. John's, 59
Res. Studentships, 873
Selwyn, 63
Sidney Sussex, 60
Trinity, 61
Res. Studentship, 873
Trinity Hall, 62
Non-Collegiate Students—
Fitzwilliam House, 63, 65
Cambridge Univ., 42
Admission, 847
Constitution, 64
Expenses, 71
Extension Lectures, 73
Laboratories, 72
Libraries, 72
Museums, 72
Non-members, 66
Postgrad. Scholps., etc., 872, 883, 885, 893, 898, 900, 965, 968
Research Insts., 72
Research Students in various subjects, 70
Training Colleges, 69
Women Students, 65
Campden Res. Station, 36, 926
Campion Coll., Regina, 545
Canada, Dominion Experimental Farms System, 954
Forest Products Labs., 958
Nat. Council of Edn., 445
Nat. Research Council, 956
Postgrad. Fellowships, etc., 908
Overseas Education League, 1057
Canadian Federation of Univ. Women Travelling Scholp., 910
Literature, 513
Nat. Fedn. of Univ. Students, 1064
Univs.—
Constitution and Hist. of, 435
Length of Sessions, 442
Nat. Conference of, 445
Statistical Tables, 445
Cancer Campaign, Australia, 592
Brit. Empire, 896
Hospital, Royal, 219
Research, 26, 100, 219, 235, 242, 361, 592, 814
Imp. Fund, 954
Postgrad. Studentships, etc., 896
Canterbury Agricultural Coll., N.Z., 630, 646, 968
Univ. Coll., N.Z., 630, 638, 969
Cape of Good Hope Univ., 653, 667
Cape Town Univ., 657
Research Scholarship, 912
Cardiff Tech. Coll., 325
Univ. College, 322
Carnegie Foundation for the Advancement of Teaching, 444
Trust for the Univs. of Scotland, 355, 873
Cast Iron Res. Assn., 938
Catalan, 112
Catholic Workers' Coll., 282
Cawthron Institute, 967
Cecil Peace Prize, 874
Celtic, 44, 110, 140, 248, 357, 367, 382, 405, 413. *See also* Irish, Welsh, and Philology, Celtic
Central Employment Bureau, 876
Ceramic Engineering, 543, 556
Industries' Research, 943, 958, 961
Cereals, 518, 957
Research Stations, 689, 922, 955, 968, 977
Ceylon Medical Coll., 822
Rubber Research Station, 986
Univ Coll., 820
Charing Cross Hosp. Med. School, 216
Charles Graham Research Labs., 220
Chelsea Polytechnic, 228
Chemical Research Labs., 937, 978
Engineering. *See* Engin., Chemical
Society, 1008
Research Fund, 906
Technology, 167, 409, 734
Chemistry—
Applied, 111, 239, 339, 375, 423, 555, 596, 614, 669, 740
Applied Physical, 167
Biological. *See* Biochemistry
Cellulose, 239, 485
Clinical, 358
Colloid, 95, 750, 814
Colour, 103, 239, 394, 734
Res. Fellowship and Scholp., 880
Electro, 25, 110, 171, 239, 548
Gas, 103
Industrial, 110, 485, 519, 533, 605, 731, 734
in relation to Medicine, 367
Institute of, 1006
Research Scholp., 1008

Chemistry (*contd.*)—
Medical, 31, 52, 423, 477
Metallurgical, 393, 423
See also Metallurgy
Pathological, 210, 490, 557, 574, 662
Physical, 20, 31, 44, 96, 110, 167, 176, 191, 230, 239, 248, 281, 295, 317, 339, 398, 413, 423, 477, 485, 513, 587, 596, 648, 658, 669, 680, 687, 738, 787, 814
Physiological, 23, 203, 234, 324, 385, 516. *See also* Biochemistry
Public Health, 26, 117
Research Fellowship, Scholps., etc., 906, 909
Technical, 239, 367, 393, 788, 791
Textile, 239
Theoretical, 44
Cheshunt Experimental and Res. Station, 926
Chesterfield Tech. Coll., 300
Child Development, 158
Child Guidance Clinic, 685
Child Guidance Council Fellowships, 887, 897
Child Life and Health, 371
Children, Diseases of—
Gt. B. and I., 23, 88, 100, 115, 203, 221, 235, 299, 322, 360, 371, 387, 400, 408
Overseas, 468, 516, 589, 634, 661, 696, 735, 767, 784, 822
See also Pediatrics
Pathology of, 388
Research Scholarships, etc., 893, 897
Chinese, 52, 186, 230, 254, 608, 803
Art and Archæol., 161, 548
Commerce, 230
Religion and Philos., 254
Research Scholarship, 887
ChiNyanji, 187
Choate Mem. Fellowship, 917
Cholera Research, 981-5, 986
Christ Coll., Tasmania, 624
Christchurch Univ. Coll. *See* Canterbury Univ. Coll.
Church of Ireland Trg. Coll., 417
Cirencester, R. Agric. Coll., 36
Citriculture, 685, 986
Research Stations, 964, 970
City and Guilds Coll., 171
Civic Design, 111
Civil Service Studies, 69, 418
Civil Service, Admission to, 1058
Clifton High School, 37
Climatology, 250, 252
Clinical Medicine, London Sch. of, 1036
Clinical Research, Dept. of, 951
Fund, 895
Unit (Guy's Hosp.), 951
Unit in Surgery, Edinburgh, 951
Coal Gas Industries, 103
Coal Mining, 27, 68, 301
Coal Treatment, 22, 936, 971
Cockle Park Agric. Experimental Station, 92
Cocoa, etc., Trades' Res. Assn., 939
Codrington Coll., Barbados, 78
Coffee Experiment Station, 976
Cold Storage. *See* Low Temperature Research
College Hall, Pfeiffer Fellowship, 874
Colliery Owners' Res. Assn., 938, 945
Colloid Science, 44, 242, 734
Colonial Administration, 179, 248
Colonial Office, Postgrad. Scholps., 789
Colston Research Society, 39
Colston's Girls' School, 37
Commerce—
Gt. B. and I., 20, 111, 179, 231, 288, 339, 362, 367, 406, 413, 423, 428, 432
Overseas, 459, 465, 481, 485, 504, 518, 527, 533, 539, 587, 596, 605, 631, 636, 639, 642, 645, 658, 669, 672, 677, 681, 687, 693, 711, 717, 721, 736, 741, 760, 769, 789, 803
Degree Bureau, 132
Res. Grants, etc., 887
Travelling Scholarships, 132
Commonwealth Fund Fellowships, 918
Professorship, 1074
Comparative Philology. *See* Philology, Comparative
Religion. *See* Religion, Comparative
Confédération Internat. des Étudiants, 1077
Connaught Labs., 963

Consumption, Brompton Hosp. for, 221
Co-operative Union, Travelling Scholps., 888
Coptic, 141
Cork Univ. Coll., 421, 428
Cotton Growing Corp., Empire, stations abroad—
E. Transvaal, 970
Nyasaland, 989
S. Rhodesia, 970
Trinidad, 989
Studentships, 880
Cotton Industry Res. Assn., 939
Research Scholarship, 889
Research Stations, 939, 975, 976, 977, 980, 986
Council of Legal Edn., 1021
Courtauld Inst. of Art, 160
of Bio-Chem., 219
Criminology, 179
Crops, Field. *See* Field Crops
Crosby Hall, 1078
Crystallography, 49, 231, 251, 281, 948, 981
Cytology, 50, 114, 139, 225, 228, 370, 922, 926, 931
Czechoslovak, 162
Czechoslovakia, Information Bureaux, 1065

Dacca Univ., 750
Dairy Accountancy, 429
Bacteriology, 36, 88, 184, 290, 314, 319, 407, 429, 648, 924, 930, 931, 932
Cattle Research Assn., Australian, 965
Chemistry, 291, 429, 648, 930
Engineering, 430
Examn. Bd., Nat., 998
Husbandry, 99, 291, 505, 561, 689, 930
Institute, British, 291
Research Inst., N.Z., 649, 969
Science, Imp. Bureau of, 930
Technology, 430, 599
Dairying, 99, 290, 314, 319, 390, 430, 451, 462, 518, 543, 599, 605, 626, 648, 683, 967, 968
Dalhousie Univ., 465
Danish. *See* Scandinavian
Davy-Faraday Res. Lab., 950
Deaf, Education of the, 231
Decoration, 145, 230
Degrees—
American (non-professional), 1071
Divinity, Canada, 444
General Hons., in Arts, 6, 26, 105, 120, 303
in Sci., 6, 38, 79, 105, 129, 242, 303
History of, 4
Lambeth, 14
Summary of, U.K. and Ireland, 4-14
Dehra Dun Forest Res. Inst., 977
Delhi Univ., 754
Delinquency, Inst. for Scientific Treatment of, 954
Demography, 179
Dental Board of U.K., 1033
Admission to School of Dentistry, 1033
Qualifications, 1032
Dental Diseases, 372
Dental Hospital, National, 221
Royal, 219
Dental Surgeons, R. Coll. of, Ont., 562
Dental Surgery, London School of, 219
Dentistry—
Gt. B. and I., 24, 35, 90, 102, 118, 214, 217, 219, 221, 238, 300, 332, 401, 408, 416, 426, 430
Overseas, 454, 469, 479, 491, 506, 517, 558, 590, 607, 618, 631, 635, 662, 698, 735, 758, 767, 801, 809, 824, 830
Australian Coll. of, 601
Deutsche Akademie, Munich, 915
Deutscher Akademischer Austauschdienst, 1066
Scholarships, 355
Deutsches Institut für Ausländer, 1066
Development Commissioners, 891
Dialects, 45
Dietetics, 100, 203, 447, 480, 492. *See also* Animal Nutrition and Nutrition
Diocesan Coll., Montreal, 494
Training Coll., York, 104
Diplomacy, 253
Diplomatics. *See* Palæography and Diplomatics
Directories, 1084
Diseases of Nervous System, Hosp. for, 221
Ditton Laboratory, 932, 937
Divinity. *See* Theology

Domestic Arts and Science. *See* Household Science and Econ.
Dove Marine Laboratory, 92, 934
Dramatic Art, 335
 Examn. for Dip. in, 134
Duala, 187
Dublin Univ., 412
 Admission, 867
Dublin Univ. Coll., 421, 423
Duchesne Coll., 608
Dundee Univ. Coll., 397, 402
Dunedin Univ. Coll. *See* Otago Univ.
Dunn Nutritional Lab., 951
Durham Univ., 78
 Admission, 850-3
 Colleges, 81
 King's Coll., 85
 Postgrad. Studentship, 906
Dutch, 141, 191, 596, 608, 659, 669, 671, 672, 675, 677, 681, 687, 692
 Information Bureaux, 1066
Dyeing and Bleaching, 103, 239, 242, 394, 734, 941, 978
Dyestuff Chemistry. *See* Chemistry, Colour

East African Agric. Res. Station, 989
East London Coll. *See* Queen Mary Coll.
East Malling Res. Station, 227, 926
Eastern Religions and Ethics, 254
Economic Entomology. *See* Entomology, Economic
Economic History—
 Gt. B. and I., 21, 45, 47, 96, 111, 180, 231, 233, 252, 296, 359, 368, 385, 406, 413
 Overseas, 518, 596, 614, 672, 681, 693
Economic and Social Research, Nat. Inst. of, 1068
Economics, Colls. of—
 Bombay, Sydenham Coll., 736
 Univ. School of, 734
 London School of, 179
Economics, Indian, 763
 National, of Ireland, 425
 Research Studentships, etc., 888-9
Edinburgh and E. of Scotland Coll. of Agric., 376, 924
Edinburgh Univ., 366
 Admission, 859-63
 Research Scholarships, 874
Education. *See* all Brit. and Irish and most Overseas Univs.
 Canadian Nat. Council of, 445
 Hist. of, 413, 429, 687
 Institute of, 158
 Methods, 560
 Research, 560
 Research Scholarships, etc., 888, 912
 Vacation course, 277
Educational Research, N.Z. Council for, 912
Edward Grey Inst. of Field Ornithol., 282
Egerton Hall, Manchester, 241
Egyptian, 112
Egyptian Education Office, 1065
Egyptology, 109, 141, 254, 815
Elder Conservatorium of Music, 592
Electrical and Allied Industries Res. Assn., 939
Electrical Communications, 145, 225, 228, 240, 298, 301, 627, 818, 946, 947
 Engineering Research Fellowship, 890
Electricity, Travelling Schol., 877
Electrology. *See* Radiology and Electrology
Electrotechnics, 232, 242, 425, 519, 818
Electrotherapeutics, 89, 101, 361, 373, 401, 480, 506, 735, 823
Elocution, 81, 158, 231, 335, 336, 375, 477, 529, 573, 608, 658, 659, 677
Emmanuel Coll., Brisbane, 608
 Sask., 544
 Toronto, 547, 560
Empire Cotton Growing Corpn. *See* Cotton Growing Corpn., Empire
Empire Educational Work, Jt. Standing Cttee. for, 1068
 League of the, 1057
Engineering. *See* all Brit. Univs. except Reading, and 452, 460, 466, 487, 504, 519, 522, 525, 533, 539, 543, 555, 588, 597, 606, 616, 623, 627, 631, 639, 641, 660, 672, 695, 731, 737, 742, 767, 771, 773, 784, 791, 794, 800, 803, 807, 818
 Aeronautical. *See* Aeronautics

Engineering (*contd.*)—
Agricultural. *See* Agricultural Eng.
Ceramic. *See* Ceramic Eng.
Chemical, 140, 150, 155, 167, 239, 390, 395, 533, 555, 693, 734
Colleges of, 731, 737, 742, 767, 773, 784, 791, 794
Dock and Harbour, 115, 414, 616
Highway, 167, 484, 597, 616, 695, 937
Hydro-electrical, 317
Municipal and Sanitary, 111, 240, 428, 488, 800
Optical. *See* Optics, Technical
Production, 386
Railway, 414, 519, 627, 785, 946
Research Scholps., etc., 889-91, 905
Sanitary, 237, 394, 416, 519, 785
See also—
Marine Eng., Metallurgical Eng., Mining Eng., Oil Technology, Optics, Technical
Engineers, Inst. of—
Automobile, 1013
Res. Committee, 937
Chemical, 1013
Civil, 1009
Electrical, 1010
Scholarships, 1010-1
Gas, 1014
Marine, 1014
Mechanical, 1011
Mining, 1045
Munic. and County, 1017
N.-E. Coast Inst. of, and Shipbuilders, 1016
and Shipbuilders in Scotland, 1017
Structural, 1018
Water, 1018
Engineers, Soc. of, 1019
English, Certif. of Proficiency in—
Cambridge, 73
London, 134
Courses for foreign students, 147, 180, 337, 342, 347. *See also* Holiday Courses
English Literature, Research Prize, 884
English-speaking Union, Scholps., 877
Engraving. *See* Art
Entomology, 46, 98, 112, 170, 214, 225, 235, 249, 253, 313, 324, 450, 477, 518, 561, 616, 620, 684, 742, 778, 810, 815, 816
Entomology (*contd.*)—
Imperial Inst. of, 920
Research, 836, 922, 923, 925, 952, 964, 966, 967, 970
See also Agric. and Forest Entomology
Entomology, Economic, 36, 72, 291, 605
Research Station, 964
Entomology, Medical, 204, 990
Epidemiology. *See* Vital Statistics
Epigraphy, 45
African, 186
Burmese, 812
Greek, 248
Indian, 187
Semitic, 144
Esperanto, 112
Estate Management, 37, 50, 184, 255
Coll. of, 1004
Travelling Scholp., 879
Ethnology, 247, 547, 633, 657, 814. *See also* Anthropology
Ethnology, Bantu, 687, 971
Eugenics, 145, 146
Exeter Univ. Coll., 335
External Students. *See* Students
Extra-mural Studies. *See* Adult Education and University Extension

Factory Hygiene, 237, 361
Farm Management. *See* Rural Economy
Fats, Waxes and Oils, 110
Fellowship of the Maple Leaf, 1057
of Medicine, 1036
Ferens Inst. of Otology, 219
Fermentation, Industrial, 22
Field Crop Diseases. *See* Plant Pathology
Field Crops, Research Labs., 455. *See also* App. III A. I (*a*) and (*b*)
Field Husbandry, 407, 451, 543, 561, 646, 648, 689, 955
Field Ornithology, Edward Grey Inst. of, 282
Film Library, Empire, 945
Fine Art. *See* Art
Finnish, 162
Fish, Preservation of, 933-6, 955, 988
Fisheries, 113, 358, 466, 470, 797
Museum, Canada, 530
Research Board of Canada, 955

Fisheries (*contd.*)—
Research Centres, 933-6, 955, 965, 977, 988
Research Grants, etc., 891
See also Marine Biology
Fishery Board for Scotland, 935
Flax Research, 925, 941
Institute, 941
Flax (*Phormium Tenax*) Research, 967
Fletcher School of Law and Diplomacy, Fellowships, 918
Florence, British Inst. of, 1066
Flour Millers' Res. Assn., 939
Fondation George Montefiore, 914
Fondation Universitaire, 1065
Food Chemistry, 239, 550, 722. *See also* Household Science
Investigation Stations, 937
Manufacturers' Res. Assn., 940
Storage and Transport, 36, 518, 932, 957, 965, 967, 971
Foot-and-Mouth Disease Station, 928
Forest Botany, 44, 249, 367, 606, 978
Engineering, 249, 358, 368, 525
Entomology, 249, 371, 506, 978
Law, 477
N.Z. State Service, 968
Products Research Labs., 463, 937, 958, 965, 977
Research Inst. and Coll., Dehra Dun, 977
Research Inst., Kepong, 987
Research Station, Deepwalls, 971
Forestry—
Gt. B. and I., 37, 50, 249, 317, 358, 371, 425
Overseas, 460, 477, 525, 550, 606, 613, 627, 689, 957
Institute, Imperial, 249, 281
Fourah Bay Coll., 78
Franco-British College, 1066
Franco-Scottish Society, 378
Free Passages, 586, 631, 877
French Universities, Admission of British Students, 1065
Fresh Water Biological Assn., 935
Stations, Alresford, 935
Windermere, 935
Fruit Culture, 184, 613
Preserving Stations, 36, 835
Production, Imp. Bureau of, 925
Research Centres, 227, 925, 926, 955, 967, 976, 977, 986
Fruit culture (*contd.*)—
See also Citriculture; Pomology; Viticulture
Fruit Storage and Transport, 932, 971
Fuels, 103, 167, 239, 298, 324, 341, 452, 734
Research, 302, 455, 936, 940, 943, 961, 967, 971
Research Inst. of S. Africa, 971
Research Station, Greenwich, 936
Fungi, Australian, 592
Fungicides. *See* Insecticides
Furzedown Training Coll., 228

Galton Laboratory, 145
Galway, Univ. Coll., 421, 432
Garton Foundation, 888
Gas Light and Coke Co., Res. Fellowship, 880
Gas Res. Fellowship, 880
General Medical Council. *See* Medical Council, General
Genetics, 46, 72, 85, 225, 228, 371, 400, 407, 486, 548, 591, 605, 689, 834, 926, 931, 980, 989, 990
Geneva, Univ. of, Admission of British Students, 1067
Geochronology, 163
Geodesy, 46, 488, 946
Geological Surveys, 936, 961, 967
Geology, Economic, 369, 394
Mining. *See* Mining Geol.
Museum of Practical, 936
Pleistocene, 250
Geophysics, 47, 168, 171, 414, 694, 967
George Eastman Visiting Professorship, 1074
George Watson Lectureship, 1074
Georgian, 187
Glasgow, Royal Tech. Coll., 389, 393
Glasgow Univ., 382
Admission, 859-65
Glass Technology, 298, 302, 731, 946
Research Fellowships, 881
Glasshouse Res. Station, 926
Gloucestershire Training Coll. of Domestic Sc., 37
Goldsmiths' College, 227
Company Studentships, 874
Government Grants to Univs. and Colls., 4

Government Services, 1058. *See also* Air Force, Army, Civil Service Studies
Grass Breeding and Management, 314, 362, 591, 683, 923, 925, 968
See also Pastures
Grasses, Turf, 927
Greek, Cromer Prize, 883
Byzantine and Modern, 250
Hellenistic, 82, 111, 239, 345
Modern, 45, 152, 154
Greenkeeping Res. Station, Bd. of, 927
Grey Univ. Coll. *See* Orange Free State, Univ. Coll. of
Grocers' Company Scholarships, 893
Gujarati, 187, 734
Guy's Hospital Medical School, 216
Clinical Res. Unit., 951

Hackney Coll. *See* New Coll.
Haffkine Institute, 983
Halifax Conservatory of Music, 470
Ladies' Coll. 470
Hall Research Inst., 601
Handicraft, Coll. of, 1056
Handsworth Theol. Coll., 25
Hannah Dairy Res. Inst., 931
Hanseatic Scholarships, 915
Harcourt Butler Tech. Inst., 980
Harold Vyvyan Harmsworth Professorship, 1074
Harper Adams Agric. Coll., 923
Harris Inst., Preston, 119, 241
Hartley Methodist Coll., 241
Hartley Univ. Coll. *See* Southampton Univ. Coll.
Hausa, 187
Hebrew—
Gt. B. and I., 52, 82, 98, 112, 141, 152, 255, 307, 308, 350, 359, 369, 384, 399, 416, 424
Overseas, 457, 474, 501, 515, 535, 542, 573, 608, 633, 641, 659, 669, 681, 688, 694, 736, 801, 816
See also Semitic Languages
Modern, 187, 815
Spanish Period, 815
Univ., Jerusalem, 814
Res. Fellowship, 914
Helminthology, 204, 370, 684, 742, 815, 823, 952, 970
Henderson Trust, 897
Henry Fund, 918
Henry Lester Inst., Shanghai, 990
Herbage Plants. *See* Plant Genetics, Imp. Bureau
Heriot-Watt Coll., 375
Hindi, 52, 187, 718, 721, 730, 743, 744, 759, 771, 789-91
Research Scholarship, 887
Hindustani, 187, 416, 771
Historical Research, Inst. of, 164
Research Studentships, etc., 884, 909
History—
Acadian, 514
Afrikaans Culture, 681
American, 142, 250, 399
Research Professorships, 1074
Arabic, 815
in Asia, esp. India, 187
of Birmingham, 21
British Dominions and Colonies, 250, 313, 369, 399, 534
Buddhist, 187
Burmese, 187, 812
Byzantine, 142, 152
Canadian, 466, 477, 514, 534
Catholic Church in Canada, 477
of Christianity, 336
Church, *Gt. B. and I.*, 238, 307, 308, 318, 360, 368, 383
Overseas, 447, 474, 501, 570, 682
Russian, 162
Dutch, 141, 191
Ecclesiastical, 45, 81, 119, 238, 255, 368, 398, 417, 477
Mediæval, 251
Economic. *See* Economic Hist.
European Central, 152, 162
Eastern E., 251
Mediæval, 251, 369
Far East, 812
French and Institutions, 180
Modern, 142, 251
German, 142
Imperial, 32, 47, 152, 196
Indian, 47, 187, 250, 730, 740, 758, 759, 763
and Culture, Ancient Indian, 188, 730, 740, 741
Inst. of Hist. Res., 164
International, 180
Irish, 425
Islamic, 187
Jewish, 815

History (*contd.*)—
of London, 142
of Manchester, 233
Mediæval, 21, 47, 112, 192, 233, 250, 296, 318, 369, 399
Military, 233, 251
Moslem, 815
Research Fellowship, 914
Naval, 47
Near East, 187
Netherlands Culture, 681
Oriental, 239
Russian, 162
Scottish, 384
of South Africa, 688
Spanish, 112, 153
Welsh, 312, 318, 323
History and Geog. of India, Res. Studentship, 885
Hobart Technical Coll., 624
Holiday and Summer Courses, 74, 147, 277, 283, 338, 378
Lists of, 1083, 1084
Holiday Courses for Foreign Students, 74, 133, 137, 147, 283, 338
Home Economics. *See* Household Science and Econ.
Home Office Indust. Museum, 947
Hong-Kong Univ., 803
Hops, 185, 926
Horticultural Coll., Swanley, 927
Society, Royal, 999
Horticultural Research Station, Cambridge, 926
Horticulture, *Gt. B. and I.*, 36, 99, 185, 225, 230, 291, 319, 335, 340, 362, 376, 390, 425
Overseas, 451, 462, 493, 506, 543, 561, 599, 605, 626, 683, 737
Pot Culture, 922
Research Centres, 73, 227, 925-7, 955, 986
Horticulture and Plantation Crops, Imp. Bureau of, 926
Household Science and Economics, 31, 37, 198, 289, 362, 446, 450, 470, 491, 493, 505, 519, 523, 542, 544, 552, 561, 562, 631, 633, 671, 683, 689, 827
Colls. of, 37, 198, 324, 493, 519
Huddersfield Tech. Coll., 104, 172
Huguenot Univ. Coll., 667, 671
Hull, Fisheries Research Dept., 934
Hungarian, 162
Hungary, Inter-Univ. Bureau, 1066
Huron Coll., Ont., 575
Hygiene, and Public Health, All India Inst. of, 742
Public Lectures, 1043
Royal Inst. of Public Health and, 1043
School of Applied, 519
Toronto School of, 569
and Tropical Diseases, Bureau of, 953
and Trop. Med., London School of, 217
Museum of, 953
See also Factory Hygiene ; Tropical Med.

Icelandic, Modern, 97
Imperial Agric. Research Inst., 974
Imperial Cancer Research Fund, 954
Imperial Coll. of Science and Tech., 166
Fellowship, 898
Imperial Coll. of Tropical Agric., 834
Imperial Council of Agric. Research, 972
Forestry Inst., 249, 281
Institute, 944
Empire Film Library, 945
Inst. of Entomology, 920
Mycological Inst., 921
Order, Daughters of the Empire, Scholarships, 910
Vet. Research Inst., 975
India, Central Jute Committee, 978
Inter-University Bd., 707
Postgraduate Studentships in Hist. and Geog. of, 885
Research Insts., 972-85
Indian Assn. for the Cultivation of Science, 981
Central Cotton Committee, 975, 979
Civil Service Studies, 69, 277
Colleges at—
Agra, 710
Ahmedabad, 734
Ajmer, 710
Allahabad, 718-19
Alwaye, 798
Amraoti, 776
Amritsar, 789, 790
Anantapur, 766
Bagerhat, 741
Bahawalpur, 790

Indian Colleges at (*contd.*)—
Bangalore, 766, 773
Bankipur, 794
Bankura, 741
Bareilly, 710
Barisal, 741
Baroda, 735
Belgachia, 741
Belgaum, 735
Benares, 730-1
Berhampur, 723, 742
Bezwada, 723
Bhagalpur, 795
Bhavnagar, 735
Bhowanipur, 742
Bikanir, 710
Bombay, 735-6
Burdwan, 742
Calcutta, 742-4
Calicut, 766
Cawnpore, 710
Chandarnagore, 744
Changanacherry, 798
Chittagong, 744
Cocanada, 723
Coimbatore, 766, 768
Comilla, 744
Contai, 744
Cooch-Behar, 744
Cuttack, 795
Dacca, 751
Darjeeling, 744
Daulatpur, 744
Delhi, 754-6
Dera Ismail Khan, 790
Dharwar, 736
Ernakulam, 766
Faridpur, 744
Feni, 744
Ferozepur, 790
Gauhati, 744
Gorakhpur, 710
Guindy, 767
Guntur, 723
Gwalior, 710
Hazaribagh, 795
Hetampur, 744
Howrah, 744
Hughli, 744
Hyderabad, 736, 764, 782-5
Indore, 710
Jaipur, 710
Jammu, 790
Jodhpur, 710

Indian Colleges at (*contd.*)—
Jorhat, 745
Jubbulpore, 776
Jullundur, 790
Junagadh, 736
Kalimpong, 745
Karachi, 737
Karatiya, 745
Kolhapur, 737
Kottayam, 798
Krishnagar, 745
Kumbakonam, 766
Kurseong, 745
Lahore, 789, 790, 791, 792
Lucknow, 757-60
Ludhiana, 790
Lyallpur, 789, 791
Madanapalle, 766
Madras, 764, 765, 767-8
Madura, 766
Mangalore, 766
Masulipatam, 723
Meerut, 711
Midnapur, 745
Moghalpura, 791
Multan, 791
Muzaffarpur, 795
Mymensing, 745
Mysore, 773
Nagercoil, 798
Nagpur, 776
Narail, 745
Nasik, 737
Nellore, 723
New Delhi, 792
Pabna, 745
Palamcottah, 766, 767
Palghat, 766
Parlakimedi, 723
Patiala, 791
Patna, 794-5
Peshawar, 789, 791
Poona, 737-8
Pudokottai, 767
Raipur, 776
Rajahmundry, 723
Rajkot, 738
Rajshahi, 745
Rangpur, 745
Rawalpindi, 791
Saidapet, 768
Salem, 767
Sangli, 738
Serampur, 745

Indian Colleges at (*contd.*)—
Shahpur, 791
Shikapur, 738
Shillong, 745
Sialkot, 791
Silchar, 745
Sonada, 745
Srinagar, 791
Surat, 738
Sylhet, 745
Tambaram, 765
Tellicherry, 767
Tinnevelly, 766
Trichinopoly, 765, 766
Trichur, 766
Trivandrum, 765, 798
Uttarpara, 745
Vaniyambadi, 767
Vellore, 767
Vizagapatam, 723
Vizianagram, 723
Waltair, 722
Wardha, 776
Institute of Science, 818, 981
Lac Research Inst., 979
Research Fund Assn., 982, 984
Students—
at Home Univs., 66, 242, 273, 378, 391, 708
Hyderabad Scholarship Committee, 709
Indian Univs.—
Admission, 704
Constitution, 703
Status of new, 707
Terms, 704
Indian Vernaculars, 740, 741
Industrial Administration, 240, 734
Inst. of, 1021
Chemistry. *See* Chemistry, Industrial
Hygiene, 23, 401, 559, 620
Law. *See* Law, Industrial
Museum, 945
Psychology, Nat. Inst. of, 947
Relations, 47, 96, 323, 533, 596, 734
Research, 452
Research Assns., 936-48, 956-62, 963-5, 967, 978-80
Industry, Organization of, 367, 596
Inns of Court, 1021
N. Ireland, 1026
Insecticides and Fungicides, 922, 923, 926
Institut Français du Royaume Uni, 1065
Insurance Inst., Chartered, 998
Intellectual Co-operation, Internat. Inst. of, 1075
International—
Council of Scientific Unions, 1075
Education, Inst. of, 1067, 1071
Federation of Univ. Women, 1078
Fellowships, 877
House, N.Y., 1071
Law. *See* Law, International
Politics, 313, 518
Relations, 180, 253, 598, 815
Research Exhibition, 885
Student Service, 1079
Iranian, 187
Irish, 414, 421, 424, 429, 432
Irish Folk-lore, 424
Irish Society, Post-grad. Scholp., 941
Iron and Steel Fedn. (Industrial Research Council), 940
Iron and Steel Inst., 1045
Research Grants, 1046
Ironmongers' Company Res. Fellowship, etc., 881
Irrigation, 616, 785
Central Bd. of, India, 975
Panjab Research Inst., 977
Islamic Studies, 187, 714, 740, 750
Italian, 21, 47, 97, 113, 142, 152, 177, 192, 233, 251, 324, 340, 369, 384, 399, 414, 424, 514, 518, 535, 540, 552, 573, 598, 608, 615, 627, 659, 800
Italy, Information Bureau, 1066

Jamaica Church Theol. Coll., 475
Japanese, 187, 598, 608, 615
Civilization, History of, 606
Jewish Federation, Inter-Univ., 1079
Studies, Inst. of, 816
Post-Biblical, 255
Jews' College, 227
John Innes Horticultural Inst., 228, 926
Joint Matriculation Bd. of Univs. of Manc., Liv., Leeds, Sheff. and Birm., 842
of S. Africa, 655
Joint Standing Committee for Empire Educ. Work, 1068
Joint Univ. Council for Social Studies and Public Admin., 1067

Journalism, 152, 154, 493, 518, 606, 627, 639, 642
History of, 518
Law of, 518, 599
Postgrad. Exhns., 892
Jugo-Slav. Govt. Scholarship, 916
Jurisprudence, Jewish, 816
Jute Cttee., Indian Central, 978

Kalgoorlie School of Mines, 628
Kanarese, 724, 764, 783
Kannada, 772
Kasauli, Central Research Inst., 981
Khasi, 186
KiKuyu, 188
King Edw. VII. Coll. of Med., 829
King Edw. VII. Mem. Pasteur and Med. Research Inst., 982
King Inst. of Preventive Med., 983
King's College, Brisbane, 608
of Household and Social Sci., 154, 198
London, 150
Hosp. Med. School, 217
Theol. Dept., 199
Theol. Exhibitions, etc., 908
Newcastle upon Tyne, *see* Durham Univ.
Univ. of, N.S., 474
King's Inns, Honble. Soc. of, 1026
Knox Coll., Toronto, 547, 560
Koonamore Field Lab., 592

Lac Research Inst., 979
Lady Tata Memorial Trust, 901
Lampeter, St. David's Coll., 350
Lancashire C.C. Scholps., 878
Independent Coll., 241
Land Agents' Society, 1004
Landscape Design, 111, 292
Launceston Technical Coll., 624
Launderers' Res. Assn., 941
Laundry Research, 957
Laval Univ., 476
Law. *See all* Brit. Univs. except Reading and most Overseas Univs.
Agents, 1025
Burmese Buddhist, 188
Colleges, India, 731, 734, 735, 737, 738, 741, 744, 767, 776, 789, 794, 798
Commercial, *Gt. B. and I.*, 20, 32, 113, 223, 406, 413
Law (*contd.*)—
Overseas, 460, 466, 479, 488, 515, 518, 528, 542, 572, 587, 614, 800
Engineering, 115, 488, 552
English and New Zealand, 644
History of, 113, 223, 467, 479, 515, 617, 800
Research Grants, 885
Indian, 51, 188, 223, 415
See also Law Colls., India
Industrial, 223, 371, 515, 518, 519, 614, 617
International, *Gt. B. and I.*, 51, 113, 223, 253, 360, 371, 386, 425
Overseas, 467, 479, 515, 552, 588, 599, 617, 634, 683, 800
Research Scholarships, etc., 885, 915
Islamic, 783
Maritime, 113, 467, 479, 515
Mercantile, 360, 367, 371, 386, 588, 616, 694, 736
Municipal, 479, 515
of Palestine, 223
Roman-Dutch, 223, 253, 683
Sanitary, 416
Scholarships, Grants, etc., 885-6, 915
Scots, 371, 399
Law Society, 1023
League of the Empire, 1057
Leather Manufacturers' Res. Assn., 941
Procter Internat. Res. Lab., 103
Teaching and Research, 103, 678, 957, 958, 967, 978
Leeds Coll. of Technol. Printing Dept., 104
Leeds Univ., 95
Admission, 842-5
Research Fellowships, etc., 880, 883, 896
Leprosy, 661, 802, 822
Research, 986, 988
Leverhulme Research Fellowships, etc., 875
Librarianship, 142, 447, 486, 560, 573, 1061
Libraries—
British Information Library, 1072
Library Co-op. Inquiry Office, 1060
Nat. Central Library, 1060
Special Libraries, Assn. of, 1060

Library Association, 1061
Library Science. *See* Librarianship
Lichfield Theol. Coll., 25, 79
Life Insurance, 556
Limnobiology, 548
Lincoln Tech. Coll., 300
N.Z., Coll. of Agric. *See* Canterbury
Theol. Coll., 79
Lincoln's Inn, Research Scholarships, 886
Linen Industry Res. Assn., 941
Scholarship, 880
Linguistics, 188
African, 188
Indian, 188, 741
Lister Institute, 217
Research Studentships, 896, 905
Literature, French Canadian, 477
Liturgiology, 82, 255
Liverpool Observatory and Tidal Inst. 119, 936
Liverpool Univ., 109
Admission, 842-5
Research Fellowship, etc., 891, 895, 897, 904
Local Examns., Cambridge, 73
Oxford, 283
London Chamber of Commerce Scholarships, 886
Day Training Coll. *See* Education, Inst. of
Hosp. Med. Coll. and Dental School, 217
Museum, Res. Studentship, 883
School of Clinical Med., 1036
School of Dental Surg., 219
School of Economics, 179
Research Studentships, 888
School of Hygiene, 217
Museum of, 953
Research Scholarship, etc., 898
School of Med. for Women, 217
Research Scholarship, 894
London, Midland and Scottish Rly. Research Dept., 947
London Univ., 125
Admission, 853
Commerce Degree Bureau, 132
Constitution, 126
External Exams. in Overseas Dominions, 128
External Students, 127, 132
Incorporated Colls., 139-57, 227
London Univ. (*contd.*)—
Inspecn. and Examn. of Schls., 135
Insts. and Depts., 158-65
Insts. with Recog. Teachers, 221, 224-8
Laws, Fac. of, 223
Lodgings Bureau, 133
Medical Schools, 201-21
Museums, 127
Postgrad. Study and Res., 131
Schools of, 166-98
Studentships, Scholps., etc., 884, 887, 888, 892, 893, 896, 898, 901
Theological Schools, 199-200
Long Ashton Res. Station, 36, 925
Low Temperature Research, 722, 835, 932, 937, 947, 971
Lucknow Univ., 757
LuGanda, 188
Luther Coll., Regina, 545
Lutheran Seminary, Sask., 544

Macaulay Inst. for Soil Research, 924
Macdonald Coll., 484, 492
McGill Univ., 484
Representative in Gt. Brit., 484
Research Fellowship, 909
McMaster Animal Health Lab., 964
Univ., 500
Madras Oriental Research Inst., 763
Univ., 763
Magee College, Londonderry, 417
Magnetism, Research in, 301, 981
Malaria Institute of India, 982
Malay, Lang. and Lit., 188
Malaya, Forest Research Inst., 987
Medical Research Inst., 988
Rubber Research Inst., 987
Malayalam, 188, 727, 764, 765, 797
Malta Univ., 800
Maltese, 188, 800
Malting. *See* Brewing
Manchester Coll. of Technology, 241
Research Scholps., 881
Manchester Museum, 242
Manchester Theological Colls., 241
Manchester Univ., 229
Admission, 842-5
Res. Fellowships, Scholps., etc., 875, 880, 885, 886, 889, 890, 895, 896, 897, 898, 905, 906, 907, 908

Manchu, 188
Mandalay, Intermed. Coll., 811
Manitoba Law School, 508
Univ., 503
Maple Leaf, Fellowship of, 1057
Marathi, 52, 188, 730, 737, 738, 783
Maria Grey Training Coll., 228
Marine Biological Assns., etc., *Gt. B. and I.*, 933-5
Overseas, 619, 663, 955, 985
Biology, 88, 548, 797. *See also* Fisheries
Engineering, 86, 115, 346, 363, 385, 946, 947
Postgrad Scholps., 891
See also Naval Architecture
Marine Engineers, Inst. of, 1014
Marischal Coll., 363
Maritime Coll. of Pharmacy, 470
Market Gardening, 184
Massey Agric. Coll., 631, 648, 968
Mathematics, Res. Scholarship, etc., 886
Matriculation. *See* Students, Admission
Maudsley Hospital, 219
Mauritius, Coll. of Agric., 826
Maynard Ganga Ram Prize, 914
Meat Inspection, 376, 562, 616
Medical Colleges, India, 723, 735, 736, 741, 742, 757, 767, 773, 784, 791, 795
Medical Council, General, 1028
Admission to Schools of Med., 1030
Qualifications, 1028
Reciprocal Recognition, 1032
Medical Museum, Strathcona, 494
Wellcome, 952
Medical Research, 556
Centres of Research and Inf.
Gt. Britain, 222, 281, 950-4
Overseas, 698, 962-3, 966, 971, 981-5, 986, 988, 990
Postgrad. Fellowships, etc., 592, 892-9, 908, 909, 910
Medical Research Council, 894, 950
Research Fellowships, etc., 894, 899
Medical Schools, Australia, 584
London Univ., 201-22
See also Medicine, Schools of
Medical Statistics. *See* Vital Statistics
Medical Studies, Postgrad., 1035
Medicine, Fellowship of, 1036
History of, 142, 299, 372, 415, 452, 516, 556
Industrial, 23
Psychological. *See* Psychological Medicine
Research Fellowships, Scholps., etc. *See under* Medical
Schools of, *Gt. B. and I.*, All Univs. except Reading
India. *See* Medical Colls., India
Overseas, 452, 467, 479, 488, 506, 516, 535, 556, 574, 589, 599, 607, 617, 631, 634, 660, 696, 801, 804, 809, 822, 829
See also Physicians; Surgeons; and special subjects
Melanesian, 188
Melbourne Univ., 595
Memorial Coll., Brecon, 308
Univ. Coll., 827
Mende, 188
Mental Diseases—
Gt. B. and I., 24, 34, 101, 116, 207, 219, 236, 299, 361, 388, 400, 430, 433
Overseas, 480, 516, 635, 767, 772, 791, 801, 809, 829
Research, 219
Fellowships, etc., 897
Jt. Board of, 26
See also Psychiatry and Psychological Medicine
Mental Health, Course in, 181
Pathology, Res. Studentship, 898
Merchant Venturers' Tech. Coll., 33, 38
Metal Industries Research, 938, 978
Metallography, 233
Metallurgical Engineering, 488, 555, 631
Metallurgical Research Labs., 302, 947, 960
Metallurgy—
Gt. B. and I., 22, 33, 48, 87, 103, 115, 169, 226, 228, 233, 239, 298, 324, 328, 394, 936, 947
Overseas, 452, 461, 534, 588, 598, 616, 634, 677, 695, 731
Research Fellowships, 907
See also Mining and Metallurgy
Metallurgy, Electro, 233
Ferrous, 298
Foundry, 302
Non-Ferrous, 233, 298

Metals, Inst. of, 1046
Meteorology, 43, 170, 252, 357, 598, 815, 922, 967
Methodist Colls., 241, 601, 608, 619
Metrology, 936
Meyerstein Inst. of Radio-therapy, 219
Micro-Biology, 36, 922
Micronesian, 188
Middlesex Hosp. Med. School, 219
Midland Agric. Coll., 342, 923
Institute, 25
Military Coll., Kingston, Ont., 493
Military History. *See* Hist., Military
Military Studies, 32, 48, 69, 87, 131, 152, 177, 233, 277, 552
Milk Hygiene, 519, 562
Mineral Deficiencies, 591, 967
Mineralogy—
Gt. B. and I., 21, 48, 141, 169, 251, 414, 936
Overseas, 461, 477, 486, 504, 519, 534, 552, 588, 597, 606, 633, 659, 678, 681
Mine Rescue, 22, 375
Mines, Safety in, Research Board, 945,
Mines, Schools of, 171, 325, 537, 591, 624, 636
Mines and Geology Branch, Ottawa, 960
Mining—
Gt. B. and I., 22, 87, 103, 169, 240, 301, 324, 341, 369, 385, 947
Overseas, 452, 461, 616, 631, 634, 695, 731
Buxton Research Station, 945
Jt. Diplomas in Coal-Mining, 27, 68, 325
Research Grant, 891
Research Lab., 945
Mining and Metallurgy, Empire Council of Mining and Metallurgical Insts., 1044
Inst. of, 1044
Mining Engineering, 33, 298, 375, 394, 452, 488, 534, 536, 588
See also Mines, Schools of
Electrical, 20
Research Fellowship, 891
Mining Engineers, Inst. of, 1045
Mining Geology, 168, 232, 298, 551
Ministry of the Churches, 1048
Mirfield, Coll. of the Resurrection, 104
Modern Humanities Res. Assn., 1075
Modern Languages, Research Scholarships, 886
Molteno Institute, 72, 928
Môn, 188, 812
Mongolian, 188
Montague Burton Professorships, 47, 96, 180, 253
Montreal Univ., 513
Moosejaw Collegiate, 545
Moravian Coll., Fairfield, 241
Moulton Ladies' Coll., 501
Mount Allison Univ., 493, 522
Mount Barker Co-operative, Ltd., 967
Mount Lyell School of Mines and Industries, 624
Mount St. Vincent Coll., 470
Museum, British, 948
Laboratory, 946
Home Office Industrial, 947
National, of Canada, 962
National, of Wales, 949
of Practical Geology, 936
Royal Scottish, 947, 949
Science, 946
Music—
Gt. B. and I., 22, 48, 31, 82, 87, 98, 111, 118, 158, 194, 226, 228, 234, 251, 289, 297, 313, 318, 324, 336, 341, 347, 358, 369, 385, 399, 407, 414, 421, 424, 429
Overseas, 447, 466, 470, 478, 486, 493, 501, 505, 519, 523, 529, 536, 542, 553, 560, 588, 592, 598, 606, 631, 634, 639, 642, 659, 678, 681, 694, 815
Commonwealth Examns., 610
Indian, 727, 763, 779
Irish, 424, 429
Oriental, 815
Travelling Scholarships, 887
Mycology, 44, 230, 367, 548, 779
See also Agric. Mycology
Imp. Mycological Inst., 921
Mysore State, Dept. of Agric., 976
Mysore Univ., 771

Nagpur Univ., 776
Natal Univ. Coll., 667, 672
National Agricultural Examn. Bd., 998
Central Library, 1060
Church League Scholarship, 908

National (*contd.*)—
Dairy Examn. Bd., 998
Dental Hosp., 221
Hospital for Diseases of the Nervous System, 221
Institute for Med. Research, 222, 950
Inst. for Res. in Dairying, 291, 929
Inst. of Industrial Psychol., 947
Inst. of Poultry Husbandry, 929
Inst. of Sciences of India, 980
Museum of Wales, 949
Physical Laboratory, 936
Poultry Dip. Examn. Bd., 999
Research Council, Canada, 909, 956, 962
Training Coll. of Domestic Subjects, 37
Union of Students, 1063
Univ. of Ireland, 421
Admission, 868
Naval Architects, Instn. of, 1015
Post-grad. Scholp., 891
Scholarships, 891, 1015
Naval Architecture, 87, 115, 385, 395, 409
Post grad. Scholarships, 891
See also Marine Eng.
History, 47
History, Modern, Julian Corbett Prize, 884
Navigation, 347, 363, 395
Nederlands. *See* Dutch
Nervous System, Nat. Hosp. for Disease of the, 221
Neurology, 208, 221, 236, 416, 480, 489, 516, 548, 696
Experimental, 236
Research Scholarship, 897
Research Unit, 951
Neuropathology, 372, 490, 557, 600
New Brunswick, Univ., 525
New College, Edinburgh, 375
Hampstead, 199
New England Univ. Coll., Armidale, 619
Newfoundland Fishery Res. Lab., 988
Newfoundland Mem. Univ. Coll., 470, 494, 827
Newman Coll., Melb., 601
New Zealand Council for Educational Research, 912
Dept. of Agric., 968
New Zealand (*contd.*)—
Dept. of Sci. and Indust. Res., 912, 967
Scholarships, 912
Free Passages from and to, 631, 877
Nat. Union of Students, 1064
Royal Society of, Grants, 912
State Forest Service, 968
Univ., 630
Terms, 631
Nobel Prizes, 916
Non-Ferrous Metals Res. Assn., 942
North of Scotland Coll. of Agric., 362, 925
Northampton Polytechnic Inst., 227
North-East London Post-grad. Coll., 1036
Northern Polytechnic, 228
Norway, Studie-Oplysningskontoret, 1067
Norwegian. *See* Scandinavian
Nottingham Univ. Coll., 339
Research Scholarships, 902
Nova Scotia Tech. Coll., 444
Nuffield Inst. for Med. Research, 281
Numismatics, 119, 251
Nursing, *Overseas*, 461, 481, 487, 519, 529, 544, 559
Examn. for Dip. in, 134
Nutrition, 492, 506, 742, 815, 972
Animal. *See* Animal Nutrition
Dunn Lab., 951
Physiology of, 359
Nyasaland, Cotton Experiment Station, 989

Oats, 925
Observatories—
Gt. B. and I.—
Birmingham, 26
Cambridge, 73, 950
Cork, 430
Dublin, 418
Edinburgh, 377
Glasgow, 390
Leeds, 104
Liverpool, 119, 936
London, 146, 165
Oxford, 281
Sheffield, 302
Solar Physics, 73, 950
Overseas—
Fredericton, N.B., 526

Observatories, *Overseas (contd.)*—
Kingston, Ont., 537
Lahore, 792
Malta, 802
Montreal, 494
New Zealand, 967
Ottawa, Dominion Obs., 530
Pretoria, 685
Saskatoon, 545
Tasmania, 624
Toronto, 562
Wolfville, N.S., 448
Obstetrics and Gynæcology, Research Scholarships, etc., 897
Oceanography, 113, 313, 957
Dept. of, Liverpool, 934
Woods Hole Instn., 985
Œnology. *See* Viticulture
Office Nat. des Universités et Écoles françaises, 1065
Oil Engineering and Refining. *See* Oil Technology
Shale Research, 944, 961
Technology, 22, 26, 169, 341, 947, 980
Research Studentship, 880
Vegetable, Research, 976, 977, 978
Ondestepoort Vet. Res. Lab., 685, 970
Ontario, Agric. Coll., 561
Coll. of Art, 562
Coll. of Education, 560
Coll. of Pharmacy, 562
Inst. of Chartered Accountants, 537
Research Foundation, 958
Royal Coll. of Dental Surgeons, 562
Veterinary Coll., 562
Ophthalmic Hosp., Royal, London, 222
Optics, Technical, 170, 228, 375, 734, 943
Optometry, School of, 518
Orange Free State, Univ. Coll. of, 667, 669
Oratory, 414
Oriental Languages, 32, 52, 186-90, 254, 399, 416, 479, 553, 569, 800, 808
See also individual languages and Indian Univs., pp. 710-99
Res. Scholarships, etc., 887
Oriental Research Inst., Madras, 763
Oriental Studies, Colleges of, 723, 731, 798
Indian Inst., Oxford, 280
Oriental Studies (*contd.*)—
School of, and African, 186
Jerusalem, 816
Oriya, 188, 721, 795
Ormond Coll., Melb., 601
Orthopædics, 24, 89, 117, 209, 236, 254, 332, 360, 372, 387, 416, 491, 507, 508, 517, 574, 662, 696
Osmania Univ., 782
Otago Univ., 630, 633, 969
Ottawa, Univ. of, 527
Overseas Education League of Canada, 1057
Oxford and Cambridge Schools Examn. Bd., 73, 282
Oxford Colleges—
All Souls, 256
Balliol, 257
Brasenose, 258
Christ Church, 259
Corpus Christi, 259
Exeter, 260
Hertford, 260
Jesus, 261
Keble, 268
Lady Margaret Hall, 270
Res. Fellowships, 876, 877
Lincoln, 261
Magdalen, 262
Merton, 263
New, 263
Oriel, 264
Pembroke, 264
Queen's, 265
St. Catherine's Society (Non-Coll. Students), 269
St. Edmund Hall, 268
St. Hilda's, 271
St. Hugh's, 270
St. John's, 266
Somerville, 270
Research Fellowship, 876
Trinity, 266
University, 267
Wadham, 267
Worcester, 268
Oxford Halls, 269
Home Students, Society of, 271
Oxford Univ., 247
Admission, 855
Advanced Study and Res., 275
Adviser of Overseas Students, 273
Constitution, 272

Oxford Univ. (*contd.*)—
Expenses, 283
Extra-mural Studies, 283
Laboratories and Res. Insts., 281-2
Libraries and Museums, 280
Non-members, 273
Research Studentship, etc., 898, 905
Societies for Higher Study, 282
Women Students, 273

Paint, Colour and Varnish Manufacturers' Res. Assn., 942
Research, 947, 957, 958
Painting. *See* Art
Palæobotany, 339
Palæography and Diplomatics, 113, 142, 152, 234, 249, 313, 369
Palæography, Celtic, 311
Hebrew, 187
Indian, 188
Latin and English, 251
Palæontology, 112, 232, 369, 486, 597, 627, 936
Palæozoology, 47
Pali, 52, 188, 741, 743, 808, 809, 820
Panjab Univ., 787
Paper-making, 239, 363, 947, 958, 960
Paper-testing, 363
Papuan, 188
Papyrology, 251
Parasitology, 44, 113, 205, 218, 468, 493, 620, 649, 697, 768, 801, 815, 823, 957, 968, 990
Agricultural. *See* Agricultural Parasitology
Inst. of, 493
Molteno Inst., 72, 928
Paris, British Inst. in, 1066, 1077
Univ. of, Bourse Curie, 915
Parkes Museum, 1043
Parliamentary Grants, 3-4
Representatives, 18
Pashto, 188
Pasteur Inst. of Burma, 986
of India, 984
Shillong, 982
of Southern India, 984
Pasture and Forage Crops, Imp. Bureau of, 923
Pastures, Research, 955, 967, 968
See also Grass Breeding and Management

Patent Agents, Chartered Inst. of, 1048
Pathology, Bland Sutton Inst., 219
Chemical, 210
Comparative, Res. Fellowship, 908
Experimental, 100, 210, 222, 815
of Industrial Diseases, 101
Research Fellowships, Scholps., etc., 968
Labs., 119, 219, 220
Patna Univ., 794
Pedagogy. *See* Education
Pediatrics, 117, 387, 453, 468, 480, 490, 506, 517, 536, 557, 574
See also Children, Diseases of
Persian, 52, 188, 416, *also* Indian Univs., pp. 710-96. *See also* Iranian
Research Scholarship, 887
Perth Technical Coll., 628
Petrography, 461, 681
Petroleum, Inst. of, 1047
Technology. *See* Oil Technology
Petrology, 32, 48, 168, 232, 340, 369, 936
Pharmaceutical Chemistry, 98, 395, 590
Pharmaceutical Society, 1049
College of, 216
Pharmaceutics. *See* Pharmacy
Pharmacognosy, 211, 226, 341, 395, 409
Pharmacology—
Gt. B. and I., 34, 52, 90, 98, 116, 143, 153, 211, 217, 220, 236, 254, 300, 331, 376, 408, 425, 426
Overseas, 451, 468, 490, 507, 517, 536, 542, 558, 574, 635, 662, 697, 741, 743, 757, 768, 772, 784, 792, 801, 804, 809, 823, 830, 951, 952, 990
Pharmacy—
Gt. B. and I., 34, 89, 98, 100, 116, 226, 228, 236, 331, 341, 362, 363, 375, 395, 409, 416
Overseas, 453, 470, 480, 505, 518, 542, 558, 590, 599, 618, 735, 736, 804, 823, 824, 829
Colleges of, 216, 470, 562, 1049
Philology, Arabic, 815
Celtic, 311, 357, 432
Classical, 143, 485, 596, 687, 815

Philology (*contd.*)—
Comparative, 48, 112, 251, 357, 370, 416, 424, 587, 741
Slavonic, 162
Research Fund, 884
English, 112, 249, 424
Germanic, 681, 688
Hebrew, 815
Romance, 151, 232, 250, 312, 317, 323, 368, 406, 424
Semitic, 255
Talmudic, 816
Teutonic, 318, 369
Turkish, 815
Philosophy of Christian Religion, 256
Hebrew, 187
History of, 407, 505, 515, 528
Indian, 187, 763
Jewish, 815
Political, 385, 598, 615, 688, 743
of Religion, 53, 98, 152, 239, 255, 307, 308, 570, 682
Research Fellowship, 887
Scholastic, 407
Phonetics, 143, 147, 188, 312, 336, 340
African, 188, 693
German, 143
Indian, 188, 741
Physical Education, 104, 118, 135, 151, 158, 231, 289, 312, 317, 326, 328, 337, 341, 346, 362, 374, 447, 454, 462, 470, 492, 501, 508, 536, 540, 544, 560, 573, 596, 688, 722, 728, 736, 810
Physicians—
R. Coll. of, Edinburgh, 1038
Res. Fellowships, etc., 894
R. Coll. of, Ireland, 1040
R. Coll. of, London, 1036
Res. Scholp. and Fellowship, 895
R. Fac. of Glasgow, 1038
Physics—
Applied, 226, 385, 741
Colloid, 234
Experimental, 49, 87, 385, 407, 415, 425, 429, 815
Inst. of, 1050
Mathematical, 49, 425, 429, 433, 534
Research, 922, 936, 946, 950, 957, 980, 981
Research Professorships, Studentships, etc., 899, 907, 915
Physics (*contd.*)—
Theoretical, 32, 113, 234
Physiology, Research Fellowship, etc., 907
Physiotherapy, 333, 490, 607, 697
Pig Husbandry, 185
Pine Hill Divinity Hall, 470
Plant Biology, 413
Breeding, 425, 649, 923, 985
Stations, 73, 314, 922, 923, 924, 925, 970, 975, 976, 977
Chemistry, 140
Diseases. *See* Plant Pathology
Genetics. *See* Genetics
Imp. Bureau of, 922
Industry, Inst. of, 975
Morphology, 44, 548
Pathology—
Gt. B. and I., 110, 166, 226, 319, 407, 425, 924, 925, 926
Overseas, 451, 493, 541, 548, 590, 593, 595, 599, 613, 626, 689, 810, 836, 957, 966, 976, 990
Physiology—
Gt. B. and I., 36, 44, 140, 166, 170, 226, 227, 367, 922, 926
Overseas, 548, 590, 595, 814, 836, 955, 966, 976, 980, 989, 990
Research Inst., Imp. Coll., 170, 922
Plant Quarantine Station, 835
Plant Regeneration, 592
Research Stations, *Overseas*, 966, 969, 976, 989
See also Special Subjects
Poetry, 252
Modern Irish, 424
Polar Research Institute. *See* Scott Polar Res. Inst.
Polish, 162
Political Economy, 45, 144, 231, 252, 359, 367, 385, 415, 451, 478, 501, 505, 518, 528, 735, 737, 743, 744, 795, 801
Political Science, 49, 311, 323, 370, 400, 406, 415, 459, 467, 485, 505, 529, 534, 543, 554, 572, 588, 638, 645, 681, 714, 718, 731, 751, 759, 772, 779, 788, 790, 803, 1075
See also Philosophy, Political
London School of Economics and, 179
Research Fellowship, 910

Political Theory and Institutions, 252, 598, 614
See also Public Administration
Politics, 45, 180, 252, 518, 525, 535, 658, 676, 677, 721, 763, 798
Foreign. *See* Internat. Politics
Politics, International. *See* Internat. Politics
Polynesian, 188
Polytechnics, London, 224-8
Pomology, 36, 227, 689, 926, 958, 969
Portuguese, 50, 112, 153, 252, 341
Post-graduate Medical Studies. *See* Medical Post-grad.
Post-graduate Scholarships, etc., 870-918
Post Office Research Station, 947
Potato Research, 73, 319, 921, 924, 925, 957
Potchefstroom Univ. Coll., 667, 675
Pottery Research Assn., 942
Poultry, 99, 184, 292, 314, 319, 390, 451, 462, 493, 505, 543, 561, 648, 683
Diseases, 36, 562, 684, 928, 929, 975
Nat. Inst. of P. Husbandry, 923, 929
Nat. Poultry Diploma Examn. Bd., 999
Nutrition Research, 932, 975
Research, 929, 932, 955, 957
Preceptors, Coll. of, 1056
Presbyterian Coll., Belfast, 409
Carmarthen, 308
Montreal, 494
Pretoria, Univ. of, 680
Preventive Medicine—
Gt. B. and I., 35, 38, 52, 237, 331, 415
Overseas, 459, 469, 491, 507, 536, 556, 559, 590, 618, 801
Res. Fellowships, etc., 898
Research Insts., 217, 963, 981-5
Prince of Wales Coll., P.E.I., 470, 494
Printing, 239, 375, 946, 947
Dept., Leeds Coll. of Technol., 104
Research Assn., 942
Prix d'Ault du Mesnil, 915
Prix Hollandais, 915
Procter Internat. Res. Lab., 103
Protistology, 222, 951
Protozoology, 98, 684, 742, 823, 952, 983
Provençal, 415
Psychiatry, 181, 373, 388, 433, 469, 490, 506, 536, 558, 574, 607, 618, 697
Psychological Medicine, 90, 101, 215, 219, 332, 388, 408, 589, 607, 661, 695, 823
Post-grad. Diploma, 134
Research, 219
Psychology, Comparative, 359
Experimental, 49, 96, 114, 399, 514, 528, 605, 634, 741
Inst. of, 282
Industrial, 49, 180, 218, 385
Inst. of, 947
Medical. *See* Psychological Medicine
Medical Industrial, 211
of Religion, 239
Research Fellowship, 887
Psychopathology, 52, 361, 682
Social, 180
Public Administration, 114, 180, 231, 252, 336, 528, 587, 596, 614, 645, 681, 763
Inst. of, 1051
Jt. Univ. Council for Social Studies and, 1067
Public Finance, 252
Public Health Administration, 101, 116, 237, 408, 416, 697
All India Inst. of Hygiene and, 742
R. Inst. of, and Hygiene, 1043
See also Hygiene
Public Speaking, 501, 528, 536, 570
Pulp. *See* Paper-making

Queen Mary Coll., 174
Queen's Coll., Birmingham, 79
Melbourne, 601
St. John's, Newfd., 79
Queen's Univ., Belfast. *See* Belfast
Queen's Univ., Kingston, Ont., 532
Fellowships, 909
Queensland Univ., 605

Rabbinics, 52, 227, 816
Rabies Research, 981-5, 986
Radio. *See* Electrical Communications
Radio Research, 301, 936, 957, 965, 967
Radiology, Dental—
Gt. B. and I., 91, 102, 118, 219, 238, 408
Overseas, 454, 469, 492, 559, 698

Radiology and Electrology—
Gt. B. and I., 24, 35, 89, 101, 117, 152, 211, 216, 219, 221, 237, 300, 333, 361, 373, 387, 401, 416
Overseas, 453, 469, 491, 503, 517, 536, 558, 574, 590, 600, 635, 662, 697, 757, 768, 772, 804, 810, 814, 823, 830, 957
Research Scholp., 915
Radium Institute, Montreal, 519
Raffles Coll., 832
Railway Engineering. *See* Engineering
Research, 947
Railway Transport, Econ. of, 616
Ramsay Memorial Fellowships, 906
Rangoon, Univ., 807
Rawdon Coll., 104
Ray Lankester Fund, 933
Reading Univ., 288
Admission, 858
Recognition of Study at other Univs. *See* separate Universities
Redland High School, 37
Refractories, 103, 167, 298, 938, 940
Research Assn., 943
Regina Coll., Sask., 544, 545
Religion, Comparative, 238, 256, 324, 474
History of, 98, 570
Philosophy of. *See* Philosophy of Religion
Research and Information, Centres of Scientific, 919-90
Facilities for. *See* "Genl. Information" for each Univ. *passim* and Appendix III
Scholarships and Grants for. *See* Scholarships
Rheumatism Research, 101
Rhodes Scholarships, 278
Rhodes Univ. Coll., 667, 677
Grad. Scholarships, 912
Rice Research, 985
Richmond College, 200
Road Materials, 452, 616, 937, 961
Road Research Lab., 937
Robert Blair Fellowships, 881
Robert Gordon's Tech. Coll., 362
Romance Languages, 49, 252, 429, 433, 447, 451
Rose Sidgwick Mem. Fellowship, 918
Roseworthy Agric. Coll., 591
Ross Institute, 217
Rothamsted Experimental Station, 228, 921
Rowett Research Inst., 363, 930
Royal Academy of Music, 228
Aeronautical Soc., 1012
Agricultural College, Cirencester, 36
Air Force Commissions, 991
Botanic Garden, Edinburgh, 367
Botanic Gardens, Kew, 920
Cancer Hosp., 219
Coll. of Music, 228
Coll. of Science, 171
for Ireland, 426
Commission for 1851 Exhn. Research Scholarships, etc., 881, 891, 902
Dental Hospital, 219
(Dick) Veterinary Coll., 376
Empire Society Research Grants, etc., 885
Free Hospital, 217
Holloway College, 194
Res. Fellowship, 875
Inst. of Brit. Architects, 1000
Bd. of Architectural Educ., 1000
Bursaries, 883
Registration of Architects in U.K., 1002
Inst. of Public Health, 1043
Inst. of Science, Bombay, 736, 981
London Ophthalmic Hospital, 222
Military Coll., Kingston, Ont., 493
Sanitary Inst., 1042
School of Mines, 171
Scottish Museum, 947, 949
Society, Research Professorships, etc., 903
Society of Canada Fellowships Fund, 911
Society of Medicine, Research Scholp., 895
Society of N.Z., 912
Tech. Coll., Glasgow, 393
Veterinary Coll., 228
Victoria Coll., Montreal, 484
See also Physicians; Surgeons; Veterinary Surgeons
Rubber Manufacturers' Research Assn., 943
Rubber Research, 957
Research Insts., 986, 987
Rural Economy, 88, 255, 371, 376, 518, 543, 614, 646, 814

Rural Economy (*contd.*)—
School of, 281
See also Agriculture; Agronomy
Ruskin Coll., 282
Russian, 23, 98, 114, 162, 234, 297, 385, 598, 608

Sacred Heart Academy, 545
St. Aidan's Coll., Birkenhead, 79, 119
Edmonton, 454
St. Andrew's Coll., Oyo, 79
Sask., 544
Sydney, 618
St. Andrews Univ., 397
Admission, 859, 865
St. Augustine's Coll., 79
St. Bartholomew's Hosp. Med. Coll., 219
St. Boniface Coll., Manit., 508
Warminster, 37
St. Chad's, Regina, 544
St. David's Coll., Lampeter, 350
St. Francis Xavier Univ., 493, 539
St. George's Hosp. Med. School, 220
St. John's Coll., Brisbane, 608
Sydney, 618
Winnipeg, 508
St. John's Hall, Highbury, 200
St. Joseph's Coll., Edmonton, 454
St. Leo's Coll., Brisbane, 608
St. Mark's Coll., Adelaide, 591
St. Mary's Coll., Padd., 228
St. Mary's Hosp. Med. School, 220
St. Michael's Coll., Toronto, 547, 560
St. Patrick's Coll., Maynooth, 421
St. Paul's Coll., Sydney, 618
Winnipeg, 508
St. Peter's Coll., Munster, 545
St. Stephen's Coll., Edmonton, 454
St. Thomas More Coll., Sask., 544
St. Thomas's Hosp. Med. School, 220
Salisbury Theological Coll., 37, 79
Salter's Institute, Research Fellowships, 881
Sancta Sophia Coll., Sydney, 619
Sanitary Engineering. *See* Engin., San.
Sanitary Inst., Royal, 1042
Sanskrit, 52, 188, 255, 370, 416, 424
Also Indian Univs., 710-99, and 820
Research Scholarship, 887
Saskatchewan, Univ. of, 541
Scandinavian Langs. and Lit., 49, 144, 599
Scholarships, Exchange, 355, 419
General, 15
Post-grad. and Research, 870-918
See also separate Univs.
Handbooks of, 1083
Travelling, Canada, 910
General, 877
School Examns., Council for Secondary, 839
England and Wales, 838
London Univ., 135
Oxford and Cambridge Bd., 73, 282
School of Oriental and African Studies, 186
of Pharmacy. *See* Pharmaceutical Society, Coll. of
of Slavonic and E. European Studies, 162
Science, Advancement of, Australian and N.Z. Assn., 963
British Assn., 949
South African Assn., 969
Science, History of, 97, 142, 253
Museum of Hist. of, 281
Science Museum, S. Kens., 946
Science, Royal Inst. of, 736, 981
Science and Technology, Imp. Coll. of, 166
Waltair, Coll. of, 722
Scientific and Indust. Research—
Gt. B. and I.—
Dept. of, Grants, etc, 900
Research Assns., 937-44
Stations, 936-7
Overseas—
Australia, Council for, 963
Nat. Research Council, 963
Canada, Nat. Research Council, 956
N.Z. Dept. of, 967
Scientific Instrument Res. Assn., 943
Investigation, Dixon Fund, 901
Fellowships, etc., 899-908
Relief Fund, 904
Research and Information, Centres of. *See* Research, Centres of Scientific
Treatment of Delinquency, Inst. for the, 954
Unions, Internat. Council of, 1075
Workers, Assn. of, 1067
Scott Polar Res. Inst., 72, 950

Scottish Marine Biological Assn., 935
National Union of Students, 1063
Shale Oil Res. Assn., 944
Society for Research in Plant Breeding, 924
Univs.—
Admission, 859-65
Carnegie Trust for the, 355
Constitution, 851
Degrees, 352
Scholarships, 354
Travelling Scholps., 877
Sculpture. *See* Art
Scunthorpe Central Tech. School, 300
Secretaries, Chartered Inst. of, 1051
Corporation of Certified, 1052
Seed and Plant Registration, Corstorphine Station, 924
Seed-Testing, 360, 924, 925, 955, 967
Seismology, 248
Semitic Languages, 112, 227, 239, 308, 318, 324, 359, 369, 384, 535
See also individual languages
Serbo-Croat and Slovene, 162
Sericulture, 985
Sesuto, 188
Shale Oil Res. Assn., 944
Shan, 188
Shanghai, Lester Inst., 990
Sheffield Univ., 172, 295
Admission, 842-5
Research Fellowships, etc., 881
Shellac. *See* Lac
Sheridan Med. Res. Foundation, 592
Shipbuilders in Scotland, Inst. of, 1017
Shipbuilding. *See* Marine Engineering and Naval Architecture
Siamese, 189
Sick Children, Hosp. for, 221
Sikololo, 189
Silicate Technology, 167
Silk Research Assn., 939
Research, 939, 958
Silviculture. *See* Forestry
Sindhi, 189
Singapore, King Edw. VII. Coll. of Med., 829
Raffles Coll., 832
Sinhalese, 189
Sir Herbert Baker Scholp., 913
Sir John Cass Tech. Inst., 228
Sir Mungaldas Nathubhai Scholarships, 914
Sir Richard Stapley Ednl. Trust, 876
Slade School of Fine Art, 146
Slavonic Langs., 50, 162, 253, 341
See also individual languages
Slavonic and East European Studies, School of, 162
Small Animal Breeding Res. Inst., 72, 930
Social Economics, 180, 192, 368, 385, 478
Social Research, Nat. Inst. of Economic and, 1068
Social Science, 23, 35, 114, 181, 478, 516, 518, 554, 606, 660, 967
Social Studies and Public Admin. Jt. Univ. Council, 1067
Social Study, 23, 192, 282, 694
Social Work, 36, 96, 688
Sociology, 181, 192, 429, 459, 466, 487, 501, 518, 522, 539, 670, 676, 682, 694, 734, 759, 783, 816
African, 353
of the Jews, 816
Research Scholarship, etc., 888
Univ. School of Econ. and, 734
Soil Surveys, 36, 591, 967
Soils, 51, 255, 319, 360, 425, 451, 518, 543, 656, 834, 990
See also Agricultural Chem.
Imp. Bureau of Soil Sci., 922, and Crops, Res. Centres, 920-5, 955, 965, 966, 968, 989
Solar Physics Observatory, 73, 950
Solicitors, Edn. and Examn., 1023, 1025, 1027
South Africa, Dept. of Agric. and Forestry Res. Scholps., 913
Forest Research Station, 971
Fuel Research Inst., 971
History of, 688
National Research Council and Bd. of the Union of, 913, 969
Nat. Union of S.A. Students, 1065
Univ. of, 667
Veterinary Res. Lab., 970
South African Assn. for the Advancement of Science, 969
College, 653
Inst. for Med. Research, 698, 971
Native Coll., 653

South African Univs.—
Conference of, 655
History, etc., 651
Jt. Committee for Professnl. Examns., 656
Jt. Matricn. Bd., 655
Scholarships, 654
Terms, 655
Vice-Chancellors' Committee, 655
Southampton Univ. Coll., 345
Research Fellowships, etc., 876, 889
South Australian School of Mines and Industries, 591
South-Eastern Agric. Coll., Wye, 184
South Wales and Mon. Schl. of Mines, 325
Southern Rhodesia, Govt. of, Experiment Station, 970
Spanish—
Gt. B. and I., 23, 50, 87, 98, 112, 153, 175, 234, 253, 290, 297, 341, 346, 360, 370, 385, 406, 407, 415, 425, 429
Overseas, 451, 466, 487, 514, 518, 535, 552, 573, 599, 827
Spectroscopy, 32, 111, 253, 981
Spoken Language, 341
Stack Medical Res. Labs., 988
Standardization, 936, 957, 964, 967
Biological, 222, 951
Standards Laboratory (Med.), 951
Statistics—
Gt. B. and I., 45, 50, 98, 144, 181, 227, 235, 253, 360, 368, 413, 922, 926
Overseas, 587, 615, 688, 694, 736, 763, 772, 800
See also Vital Statistics
Statistics, Inst. of, 281
Social, 114
Stellenbosch Univ., 687
Dept. of Pomology, 969
Strangeways Res. Lab., 953
Student Christian Movement, 1079
Students, Admission to Univs. in the U.K., 838-69
to French Univs., 1065
to Geneva Univ., 1067
Advice for Indian. *See* Indian Students
Confédération Internat., 1077
External, Australia, 585, 610
London, 127, 132
S. Africa, 654, 667
Students (*contd.*)—
Full-time, number of, 14
Internat. Student Service, 1079
National Fedn. of Canadian, 1064
National Union of Australian, 1064
National Union of, E. and W., 1063
National Union of S. African, 1065
N.Z. Nat. Union of, 1064
Scottish National Union of, 1063
World's Stud. Christian Fed., 1078
Students from other countries, Statistics, 1069
Sugar-cane Breeding, 974, 976
Sugar Confectionery Res. Assn., 939
Sugar Experiment Stations, Bureau of, 966
Sugar Research, 826, 835, 966, 986
Technology, 393, 395, 826, 834, 836
Sunderland Tech. Coll., 78
Surgeons of Gt. B. and I., Assn. of, Scholp., 892
R. Coll. of, Edinburgh, 1038
R. Coll. of, England, 1036
Museum of, 952
Res. Fellowship, etc., 895
Research Labs., 951
R. Coll. of, Ireland, 1040
R. Fac. of, Glasgow, 1038
Surgery, Scholarships, 892
Surveyors' Chartered Inst., 1053
Travelling Scholps., 878
Suto, 189
Swahili, 189
Swanley Horticultural Coll., 927
Swansea Univ. Coll., 327
Swedish. *See* Scandinavian
Switzerland, Information Bureau, 1067
Sydney Univ., 613
Syriac, 32

Talmud. *See* Hebrew
Tamil, 53, 189, 727, 763, 764, 772, 798, 821
Tanganyika, Agric. Res. Station, 989
Tanning. *See* Leather
Tasmania Univ., 623
Tea Research Insts., 975, 987
Teachers, Assn. of University, 1067
Edn. and Training of, in E. and W., 1055
Interchange of, 1056
Registration Council, 1058
Royal Society of, 1058

Technical Colleges—
Gt. B. and I., 33, 38, 78, 104, 224-228, 241, 300, 325, 362, 375, 393, 409
Overseas, 444, 454, 624, 628
Technological Inst., Cawnpore, 980
Lab., Matunga, 979
Technology, 102, 166, 239, 409, 616, 722
See also Chemistry, Applied; Fuel; Glass
Research Scholarships, etc., 880
Telugu, 53, 189, 722, 727, 764, 772, 783
Terms, Dates of—
Australia, 580
Canada, 442
Gt. B. and I., 4
India, 704
New Zealand, 631
S. Africa, 655
Textile Institute, 1055
Textiles, 103, 240, 341, 395, 409, 505, 734, 798
Textiles Research, 957. *See also* Cotton, Silk, Wool, etc.
Research Fellowship, etc., 880
Theological Colls.—
Gt. B. and I.—
Aberystwyth and Bala, 307
Bangor, 307
Belfast, 409
Birkenhead, 79, 119
Birmingham, 79
Brecon, 308
Bristol, 37, 79
Cambridge—
Cheshunt, 70
Ridley Hall, 69
St. Edmund's House, 70
Wesley House, 70
Westcott House, 70
Westminster, 70
Canterbury, 79
Cardiff, 308
Carmarthen, 308
Chichester, 79
Clifton, 79
Didsbury, 241
Dorchester, 79
Edinburgh, 79, 375
Handsworth, 25
Isle of Man, 79
Lampeter, 350
Theological Colls. (*contd.*)—
Gt. B. and I. (*contd.*)—
Lichfield, 25, 79
Lincoln, 79
London—
King's Theol. Dept., 199
New, 199
Oak Hill Coll., 79
Richmond, 200
St. John's Hall, Highbury, 79, 200
Manchester, 241
Mirfield, 104
Rawdon, 104
St. Andrews, 397, 402
Salisbury, 37, 79
Warminster, 37, 79
Whalley Range, 241
Canada—
Edmonton, 454
Halifax, 474
Kingston, Ont., 536
London, Ont., 575
Montreal, 494
Regina, 544
Saskatoon, 544
Toronto, 560, 569, 570
Vancouver, 462
Winnipeg, 508
Colonies—
Barbados, 79
Jamaica, 79, 475
Newfoundland, 79
Oyo, Nigeria, 79
Sierra Leone, 79
Theological Seminary, New York, Fellowships, 918
Theology—
Gt. B. and I., 37, 45, 67, 69, 81, 82, 98, 129, 199-200, 238, 255, 275, 307, 318, 347, 350, 353, 360, 368, 375, 383, 398, 416, 421
Overseas, 447, 457, 474, 479, 501, 515, 529, 569, 570, 676, 682, 688, 801
Hindu, 731
Muslim, 715, 783
Research Fellowships, etc., 908
Therapeutics, 22, 90, 116, 236, 254, 373, 408, 430, 433, 453, 480, 490, 517, 536, 558, 600, 635, 792, 801
Thermodynamics, 51, 167, 168, 253, 519
Chemical, 167

Tibetan, 189
Tides. *See* Liverpool Observatory and Tidal Inst.
Tissue Culture Research, 23, 953, 971, 983
Tobacco Research, 955, 966, 967, 968, 970, 986
Tocklai Experimental Station, 975
Toronto Univ., 547
 Banting Institute, 963
 Connaught Labs., 963
 Research Fellowships, 909
Torry Research Station, 935, 937
Town Planning, 111, 145, 229, 680, 784
 Law of, 111, 229
Training Colleges—
 Gt. B. and I.—
 Cambridge, 69
 Chester, 119
 Dublin, 417
 Liverpool, 119
 London, 228
 Ormskirk, 119
 Oxford, 277
 York, 104
 Overseas, 481, 493, 519, 723, 731, 736, 737, 742, 751, 768, 776, 785, 792, 795, 798, 810
Transport, 111, 181, 413, 554
 Inst. of, 1019
 Railway Research Dept., 947
Travelling Scholarships, etc. *See* Scholarships
Trinidad Cotton Research Station, 989
Trinidad, Imp. Coll. of Trop. Agric., 834
Trinity Coll., Dublin, 412
 Melbourne, 601
 of Music, 228
 Toronto, 547, 569
Tropical Agriculture, Imperial Coll. of, Trinidad, 834
Tropical Diseases, Bureau of Hyg. and, 953
 of Africa, 118
 Research Scholps., etc., 898
Tropical Diseases Research—
 of Burma, 986
 of India, 981-5
 See also Special Diseases
 of Malaya, 988
 of Sudan, 988
Tropical Hygiene. *See* Tropical Med. and Hygiene
Tropical Medicine, Liverpool School of, 119
 Commonwealth Schl. of Public Health and, 620
Tropical Medicine and Hygiene, 118, 119, 214, 362, 373, 607, 620, 697, 742, 834
 London Schl. of Hyg. and, 217
 Museum of, 953
 Wellcome Tropical Research Labs., 988
Truro, Ont., Agric. Coll., 494
Tuberculosis, 100, 237, 300, 332, 362, 373, 388, 401, 480, 768, 772, 823, 957, 988
 Research Fellowships, etc., 899
Turki, 189
Turkish, 189
Twi, 189
Type Cultures, Nat. Collection of, 951

Union Académique Internat., 1075
Union Coll. of B.C., 462
 Theological Seminary Fellowships, 918
Unitarian Coll., Manchester, 241
United College, Winnipeg, 508
United Planters' Assn., 976
U.S.A., Institute of Internat. Edn., 1067, 1071
 Scholarships, etc., 917
 Univs., 1071
United Theol. Coll., Aberyst. and Bala, 307
 Theol. Coll., Montreal, 494
Universities Bureau, xi
 Articles of Assn., xv
 Attestations for Students, 1065, 1067
 Cecil Peace Prize, 874
 Executive Council, xxviii
 Annual Report, xxx
 Free Passages, 877
 French Bourses, 914
 Member Instns., xxv
 Memorandum of Assn., xii
 Thomas Carlyle Stipendium, 915
University Coll., London, 139
 Hosp. Med. School, 220
 Research Scholps., etc., 884, 905, 907

University Extension. *See* all British Univs. and, 454, 462, 502, 536, 540, 544, 600, 608, 618, 628, 635, 639, 642, 645. *See also* Adult Education
University Grants Committee, 3-4
University Teachers, Assn. of, 1067
Urdu, 53, 187, *also* Indian Univs.
Research Scholarship, 887
Ursuline College, 575

Vacation Courses. *See* Holiday Courses
Vegetable Biology, 150
Vegetable Preservation, 36, 926, 932
Veterinary Colleges, 228, 376, 519, 562, 768
Dietetics, 376, 599
Hygiene, 99, 227, 228, 237, 291, 314, 319, 360, 362, 376, 562
Municipal, 684
Law, 237, 562, 615
Parasitology, 519, 562, 600, 615, 684
Pathology, 227, 228, 376, 519, 562, 599, 615, 648, 684
See also Animal Pathol.
Science, *Gt. B. and I.*, 37, 88, 114, 184, 291, 319, 322, 376, 390, 407
Overseas, 451, 519, 543, 600, 607, 615, 684, 689, 779, 826, 835
Research Grants, etc., 878
Research Inst., Adelaide, 966
Research Labs., 601, 928, 929, 968, 970, 973, 975, 976
Surgeons, R. Coll. of, 1041
Tropical Diseases, 684
Vice-Chancellors, Committee of, Gt. B. and I., 17
Australian, 586
South African, 655
Victoria Coll., B.C., 462
Methodist Coll., 241
Univ., Manchester. *See* Manchester Univ., Toronto, 547, 570
Univ. Coll., N.Z., 630, 644, 969
Virus Diseases, 73, 921, 922, 966, 970
Visser Internat. Law Prize, 915
Vital Statistics, 204, 218, 416, 468, 559, 742, 815
Viticulture, 599, 689, 964, 970
Merbein Res. Station, 964

Waite Institute for Agric. Research, 590, 592, 966
Wales, Univ. of, 307
Admission, 858
Waterloo Coll., 575
Weaving Institute, Serampore, 979
Weeds, Noxious, Research, 957, 967
Wellcome Research Institution, 952
Museum of Med. Sci., 952
Tropical Research Labs., 988
Wellington Univ. Coll. *See* Victoria Univ. Coll.
Welsh Lang. and Lit., 313, 318, 324, 328, 350, 421, 425
Mediæval Antiquities, 110
National School of Med., 331
Research Scholarships, 897, 899
Plant Breeding Station, 314, 923
Werribee Research Farm, 601
Wesley Coll., Sydney, 619
West London Post-grad. Coll., 1036
Western Australia, Univ., 626
Coll., Bristol, 37
Ontario, Univ., 572
Westfield Coll., 196
Research Studentships, 875
West Ham Munic. Coll., 228
Westminster Hosp. Med. School, 221
West of Scotland Agric. Coll., 389, 925
Wheat Research, 455, 967, 968
Whitworth Scholarships, 889
Will Edmonds Clinical Res. Fund, 895
Willow Cultivation, 36, 925
Witwatersrand, Univ., 692
Research Scholarships, 913
Woburn Experimental Station, 922
Women, Admission to Degrees, 3
Appointments Bd., Camb., 71
Appointments Cttee., Oxford, 280
at Cambridge, 65
at Oxford, 273
Federations of Univ., Scholps.—
American, 917
British, 872, 882
Canadian, 910
International, 877
Internat. Fed. of, 1078
Women's Colleges, *Gt. B. and I.*, at—
Cambridge—
Girton, 63
Newnham, 64
Training Coll., 69
Durham—
Neville's Cross, 83

Women's Colleges, *Gt. B. and I.* (*contd.*), at—
Durham (*contd.*)—
St. Hild's, 83
St. Mary's, 83
Liverpool—
Edge Hill, 119
Mt. Pleasant, 119
London—
Bedford, 191
King's Coll. H. Sci., 198
Royal Holloway, 194
School of Med., 217
Westfield, 196
Oxford—
Lady Margaret Hall, 270
St. Hilda's, 271
St. Hugh's, 270
Soc. of Home Students, 271
Somerville, 270
Swanley, 927
Overseas, at—
Australia—
Brisbane, 608
Melbourne, 601
Sydney, 619
Canada—
Halifax, N.S., 470
Montreal, 484
India—
Bangalore, 766
Benares, 731
Calcutta, 742, 744
Delhi, 754
Ernakulam, 766
Hyderabad, 785
Kurseong, 745
Women's Colleges, *Overseas* (*contd.*), at—
India (*contd.*)—
Lahore, 790, 792
Lucknow, 759
Madras, 765
Mangalore, 766
Mysore, 773
Nagpur, 776
Palamcottah, 767
Trichinopoly, 766
Trivandrum, 798
South Africa—
Wellington, C.P., 671
Woods and Fibres, 249, 937, 958, 977
See also Forest Products
Woods Hole Oceanographical Instn., 985
Wool, 591, 599, 648, 683
Research, 944, 957, 967, 968
Wool Industries Res. Assn., 944
Woolwich Polytechnic, 228
Workers' Educational Assn., 16
World's Student Christian Fed., 1078
Writers to the Signet, 1025
Wycliffe Coll., Toronto, 547, 560

Yao, 189
York, Diocesan Tr. Coll., 104
Yoruba, 189

Zoological Society, Research Fellowships, 908
Zoology, Research Fellowship, etc., 908

PRINTED IN GREAT BRITAIN
BY R. & R. CLARK, LIMITED, EDINBURGH

THE YEARBOOK OF THE UNIVERSITIES OF THE EMPIRE

Annually, price 15s. net.

Issues previous to 1937 still available, price 2s. 6d. direct from the Universities Bureau.

CONGRESSES OF THE UNIVERSITIES OF THE EMPIRE

Reports of the Proceedings, including Addresses, Papers and Discussions

1912, 1921, 1926 *editions, each 2s. 6d.*; 1931, *7s. 6d.* (direct from the Universities Bureau)

1936, 21s. *net.*

LONDON: G. BELL AND SONS, LTD
YORK HOUSE, PORTUGAL STREET, W.C.2

G. BELL & SONS LTD

SCIENCE

The Universe of Light. By SIR WILLIAM BRAGG, O.M., K.B.E., D.Sc., P.R.S. 12s. 6d. net.

The Crystalline State. Vol. I. A General Survey. By Prof. W. L. BRAGG, D.Sc., F.R.S. 26s. net.

The New Chemistry. By Prof. E. N. DA C. ANDRADE, D.Sc., Ph.D., F.R.S. 3s. 6d. net.

Ultrasonics. By DR. LUDWIG BERGMANN. 16s. net.

A Complete Physics. By W. H. WHITE, M.A., B.Sc. 15s. net.

Smith's Introduction to Inorganic Chemistry. New edition, revised by Prof. J. KENDALL, F.R.S. 15s. net.

A Textbook of Organic Chemistry. By Prof. J. READ, Ph.D., M.A., Sc.D., F.R.S. Revised edition. 12s. 6d. net.

Lecture Experiments in Chemistry. By G. FOWLES, M.Sc., A.I.C., F.C.S. 16s. net.

Plant Form and Function. By Prof. F. E. FRITSCH, F.R.S., and Prof. E. J. SALISBURY, F.R.S. 17s. 6d. net.

MATHEMATICS

Elementary Treatise on Pure Mathematics. By N. R. CULMORE DOCKERAY, M.A. 16s. net.

An Elementary Treatise on Differential Equations and Their Applications. By Prof. H. T. H. PIAGGIO, D.Sc. 12s. net.

A Treatise on Hydromechanics. Part I. (Hydrostatics), by W. H. BESANT, F.R.S., and A. S. RAMSEY, M.A. 7s. 6d. net. Part II. (Hydrodynamics), by A. S. RAMSEY. 16s. net.

Advanced Algebra. By CLEMENT V. DURELL, M.A., and A. ROBSON, M.A. Volume 1, 4s. 6d. Volumes 2 and 3 together, 12s. 6d.

Advanced Trigonometry. By C. V. DURELL, M.A., and A. ROBSON M.A. 9s. Key, 15s. net.

ART

The National Gallery. By SIR C. HOLMES. 3 vols. 7s. 6d. net. each.

Art through the Ages. By HELEN GARDNER. New edition. 15s. net.

English Painting. By CHARLES JOHNSON. 15s. net.

Complete catalogue, or list of books on a particular subject, post free on request

YORK HOUSE, PORTUGAL STREET, LONDON, W.C.2

G. BELL & SONS LTD

ENGLISH LITERATURE

The English Muse. By Prof. OLIVER ELTON, LL.D., D.Litt. Cheaper edition. 7s. 6d. net.

Handbooks of English Literature. 10 vols. 5s. net each.

English Prose Style. By HERBERT READ. 5s. net.

The Poet's Tongue. An anthology chosen by W. H. AUDEN and JOHN GARRETT. 6s. net.

Idea and Expression. By R. W. MOORE, M.A. 3s. 6d.

Prose at Present. Edited by R. W. MOORE, M.A. 2s. 6d.

FRENCH

Gasc's Concise French Dictionary. New edition, with supplement of over 10,000 words, compiled by J. MARKS, M.A. 6s.

French Style through Unseens. By J. B. C. GRUNDY, M.A., Ph.D., and M. THIÉRY. 4s.

Prose and Verse Selections from Sixteenth-Century French Authors. By W. HUGO EVANS, B.A., and J. D. JONES, M.A. 5s.

La Civilisation Française. By HENRI MALLET. 7s.

Les Maîtres de la Littérature Française. Portraits, Critiques et Extraits de C. A. SAINTE-BEUVE, chosen by JEAN-JACQUES MAYOUX. 7s.

HISTORY

The Foreign Policy of Castlereagh, 1812-1822. By Prof. C. K. WEBSTER, M.A. 2 Vols. (1812-15 and 1815-22). Each 25s. net.

The Foreign Policy of Canning, 1822-1827. By Prof. HAROLD TEMPERLEY, O.B.E., Litt.D. 25s. net.

The Life of Napoleon I. By Prof. J. HOLLAND ROSE, Litt.D. 10s. net.

Europe since 1914. By F. LEE BENNS. New edition. 16s. net.

The Expansion of Europe. By Prof. W. C. ABBOTT. New edition. 17s. 6d. net.

Twelve Centuries of Rome. By G. P. BAKER. Cheaper edition. 7s. 6d. net.

Fuller details of the above, and of Messrs. Bell's many standard text-books, free on request

YORK HOUSE, PORTUGAL STREET, LONDON, W.C.2

UNIVERSAL
LIBRARY

138 296

UNIVERSAL
LIBRARY